

LAMPIRAN A

Pemograman request pada PLC *slave* 1, terdiri dari :

Request Read N Words ke PLC Slave 1

	Memory Word PLC Master	Value/Symbol	Keterangan
Control Table	%MW10	16#0106	01 (Transmission/reception) & 06 (transmission length)
	%MW11	16#0300	RxTx offset code
Transmission Table	%MW12	16#0103	01 (alamat PLC <i>slave</i> 1) & 03 (kode request)
	%MW13	16#0002	alamat word pertama yang dibaca
	%MW14	16#0006	jumlah word yang dibaca = 6 words
EXCH3%MW0:13			Perintah untuk mengirim request, jumlah word yang diperlukan adalah 13 words (%MW0 -%MW12)
Reception Table (terisi setelah <i>slave</i> merespon)	%MW15	16#0103	01 (alamat PLC <i>slave</i> 1) & 03 (kode respon)
	%MW16	16#000C	jumlah byte yang dibaca (2*jumlah word yang dibaca) = 12 bytes
	%MW17	NILAI <i>BARCODE</i>	word 1 yang dibaca dari PLC <i>slave</i>
	%MW18		word 2 yang dibaca dari PLC <i>slave</i>
	%MW19		word 3 yang dibaca dari PLC <i>slave</i>
	%MW20		word 4 yang dibaca dari PLC <i>slave</i>
	%MW21	AKTUAL_BESI _DISPLAY	word 5 yang dibaca dari PLC <i>slave</i>
	%MW22	AKTUAL_PLASTIK _DISPLAY	word 6 yang dibaca dari PLC <i>slave</i>

Request Write N Words ke PLC Slave 1

	Memory Word PLC Master	Value/Symbol	Keterangan
Control Table	%MW30	16#0116	01 (Transmission/reception) & 16 (transmission length)
	%MW31	16#0007	RxTx offset code
Transmission Table	%MW32	16#0110	01 (alamat PLC <i>slave</i> 1) & 10 (kode request)
	%MW33	16#0016	Alamat MW pertama PLC <i>slave</i> yang akan ditulis (%MW22)
	%MW34	16#0007	Jumlah word yang akan ditulis
	%MW35	16#000E	Jumlah byte yang akan ditulis (2*jumlah word) = 2*7
	%MW36	Start display	word 1 yang ditulis ke PLC <i>slave</i>
	%MW37	Target Plastik	word 2 yang ditulis ke PLC <i>slave</i>
	%MW38	Target Besi	word 3 yang ditulis ke PLC <i>slave</i>

	%MW39	Actual Besi	word 4 yang ditulis ke PLC <i>slave</i>
	%MW40	Actual Plastik	word 5 yang ditulis ke PLC <i>slave</i>
	%MW41		word 6 yang ditulis ke PLC <i>slave</i>
	%MW42		word 7 yang ditulis ke PLC <i>slave</i>
EXCH3 %MW30:16			Perintah untuk mengirim request, jumlah word yang diperlukan adalah 16 words (%MW30 -%MW45)
Reception Table (terisi setelah <i>slave</i> merespon)	%MW43	16#0110	01 (alamat PLC <i>slave</i> 1) & 10 (kode respon)
	%MW44	16#0016	Alamat MW pertama PLC <i>slave</i> yang ditulis (%MW22)
	%MW45	16#0007	Jumlah word yang ditulis

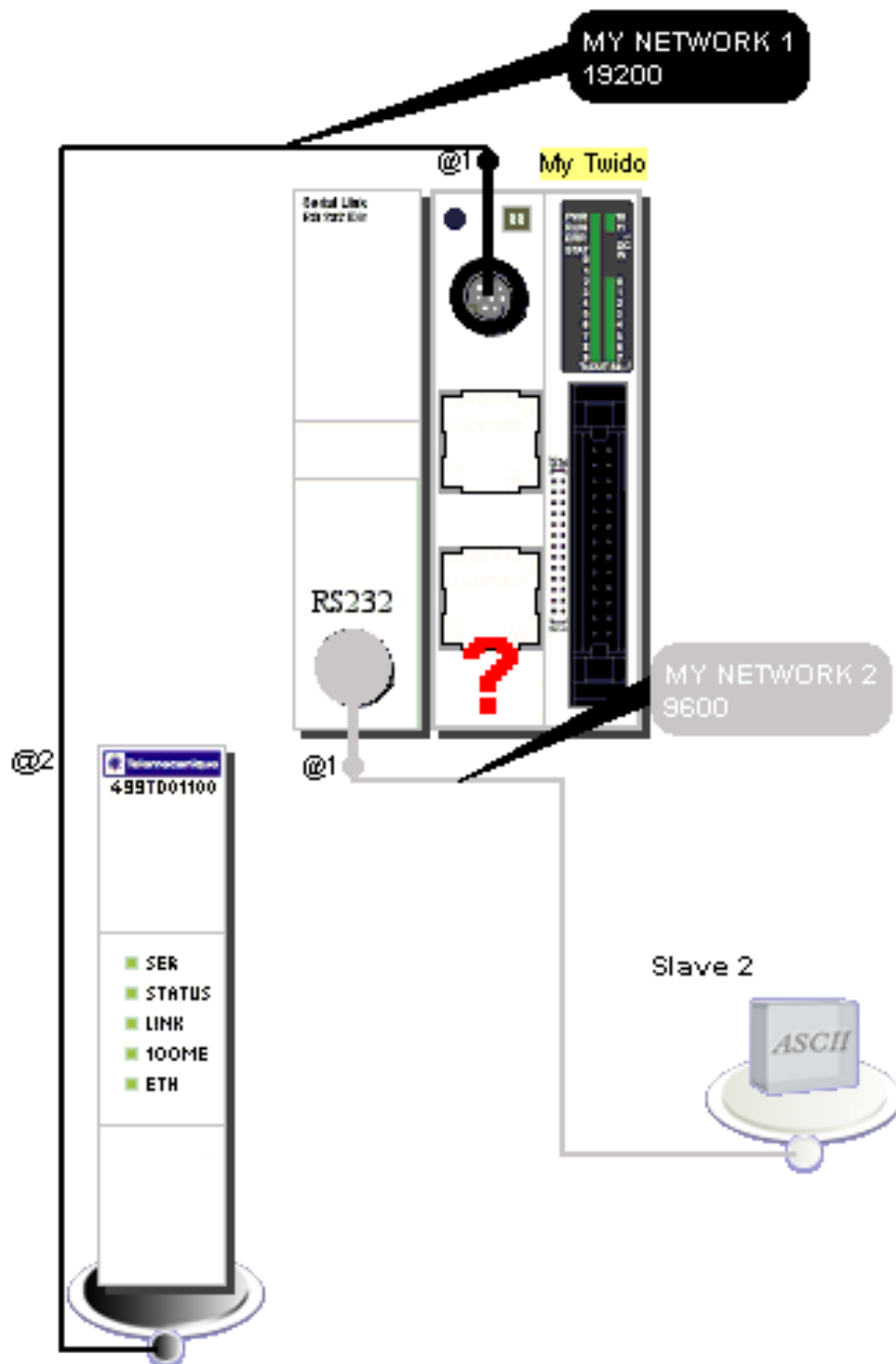
Pemrograman request pada PLC *slave* 2, terdiri dari :

Request Read N Words ke PLC Slave 2

	Memory Word PLC Master	Value/Symbol	Keterangan
Control Table	%MW50	16#0106	01 (Transmission/reception) & 06 (transmission length)
	%MW51	16#0300	RxTx offset code
Transmission Table	%MW52	16#0203	02 (alamat PLC <i>slave</i> 2) & 03 (kode request)
	%MW53	16#000A	alamat word pertama yang dibaca
	%MW54	16#0006	jumlah word yang dibaca = 6 words
EXCH3 %MW50:13			Perintah untuk mengirim request, jumlah word yang diperlukan adalah 13 words (%MW50 -%MW62)
Reception Table (terisi setelah <i>slave</i> merespon)	%MW55	16#0203	02 (alamat PLC <i>slave</i> 2) & 03 (kode respon)
	%MW56	16#000C	jumlah byte yang dibaca (2*jumlah word yang dibaca) = 12 bytes
	%MW57	Counter Value Plastik	word 1 yang dibaca dari PLC <i>slave</i>
	%MW58	Counter Value Besi	word 2 yang dibaca dari PLC <i>slave</i>
	%MW59	JLH_PRO_BS_FESTO	word 3 yang dibaca dari PLC <i>slave</i>
	%MW60	JLH_PRO_PLS_FESTO	word 4 yang dibaca dari PLC <i>slave</i>
	%MW61		word 5 yang dibaca dari PLC <i>slave</i>
	%MW62	IO FESTO	word 6 yang dibaca dari PLC <i>slave</i>

Request Write N Words ke PLC Slave 2

	Memory Word PLC Master	Value/Symbol	Keterangan
Control Table	%MW70	16#0110	01 (Transmission/reception) & 16 (transmission length)
	%MW71	16#0007	RxTx offset code
Transmission Table	%MW72	16#0210	02 (alamat PLC <i>slave</i> 2) & 10 (kode request)
	%MW73	16#0014	Alamat MW pertama PLC <i>slave</i> yang akan ditulis (%MW20)
	%MW74	16#0004	Jumlah word yang akan ditulis
	%MW75	16#0008	Jumlah byte yang akan ditulis (2*jumlah word) = 2*4
	%MW76	Start Festo	word 1 yang ditulis ke PLC <i>slave</i>
	%MW77	Stop Festo	word 2 yang ditulis ke PLC <i>slave</i>
	%MW78	Target to Festo Besi	word 3 yang ditulis ke PLC <i>slave</i>
	%MW79	Target to Festo Plastik	word 4 yang ditulis ke PLC <i>slave</i>
EXCH3 %MW70:13			Perintah untuk mengirim request, jumlah word yang diperlukan adalah 13 words (%MW70 -%MW82)
Reception Table (terisi setelah <i>slave</i> merespon)	%MW80	16#0210	02 (alamat PLC <i>slave</i> 2) & 10 (kode respon)
	%MW81	16#0014	Alamat MW pertama PLC <i>slave</i> yang ditulis (%MW20)
	%MW82	16#0004	Jumlah word yang ditulis

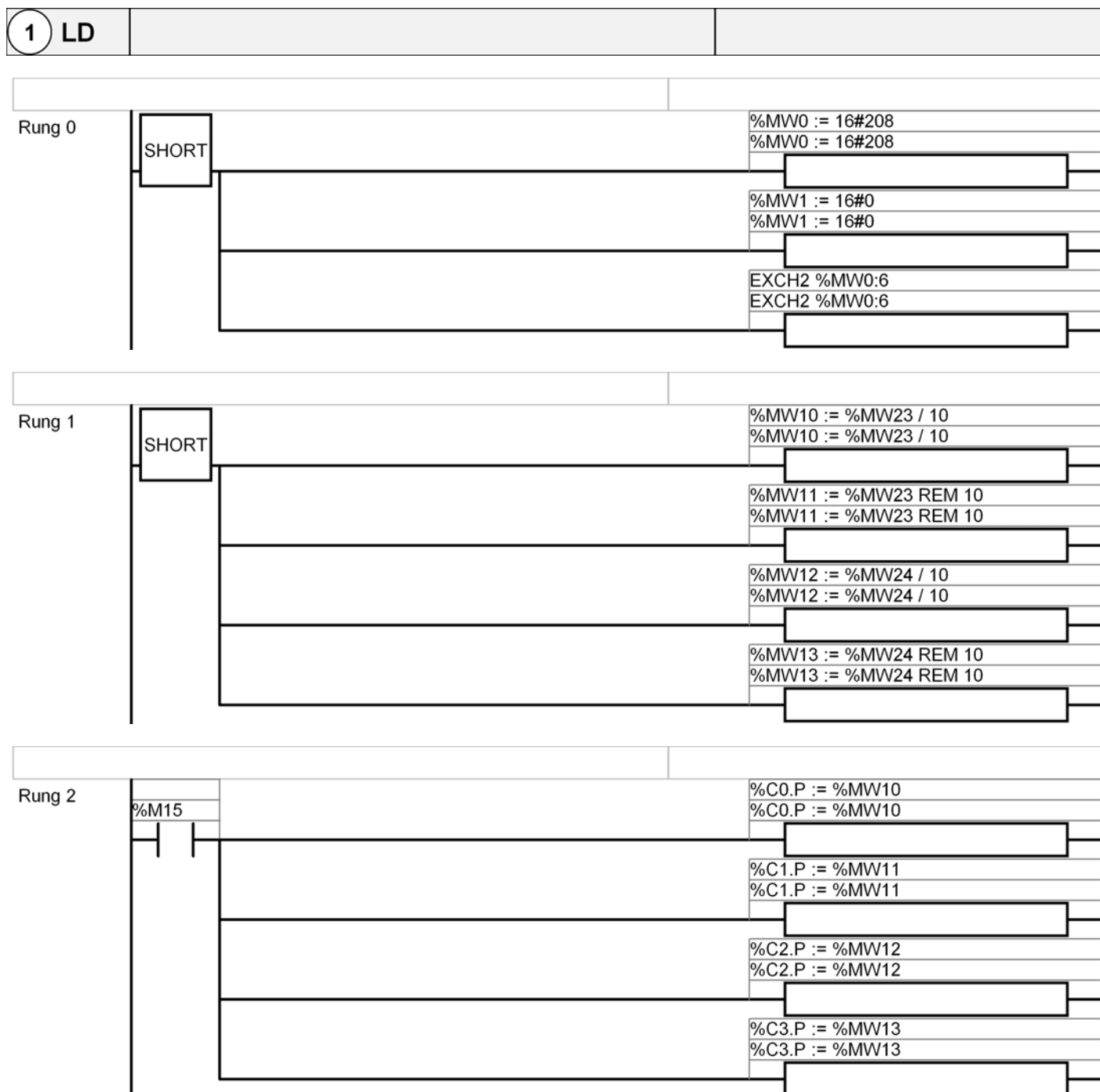


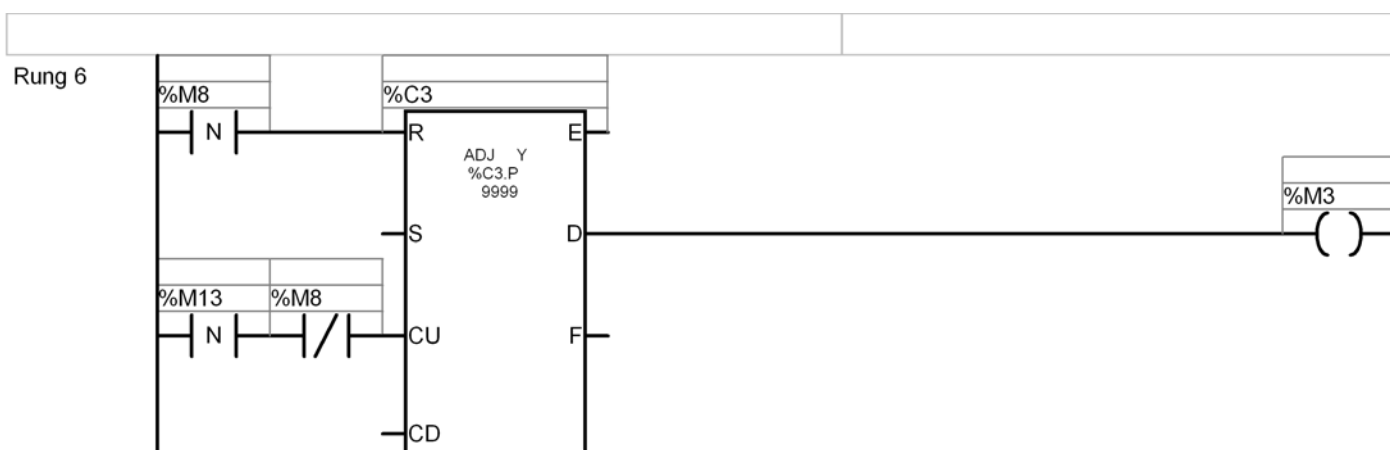
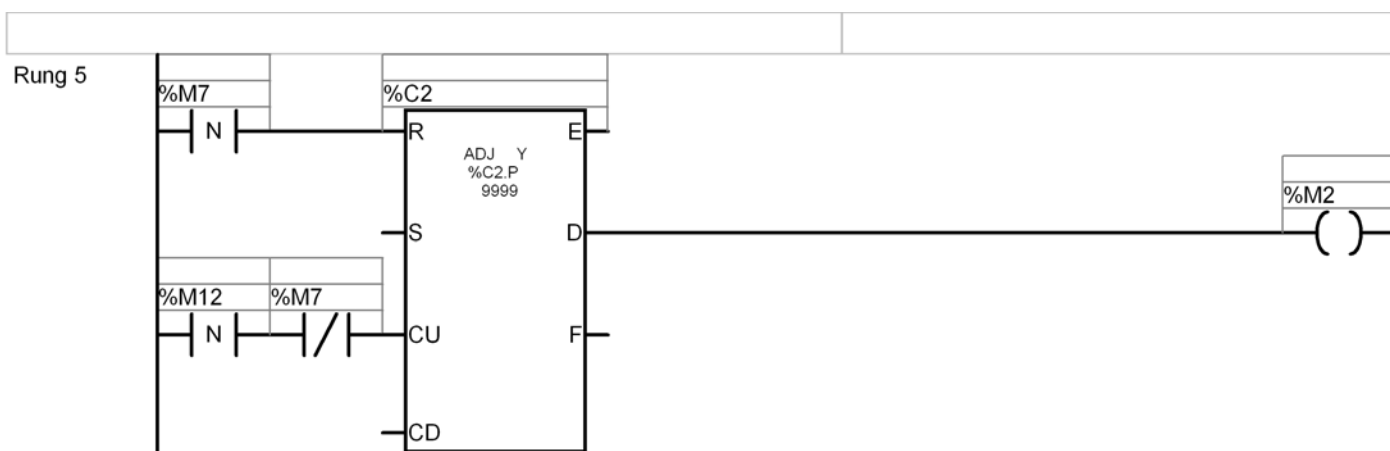
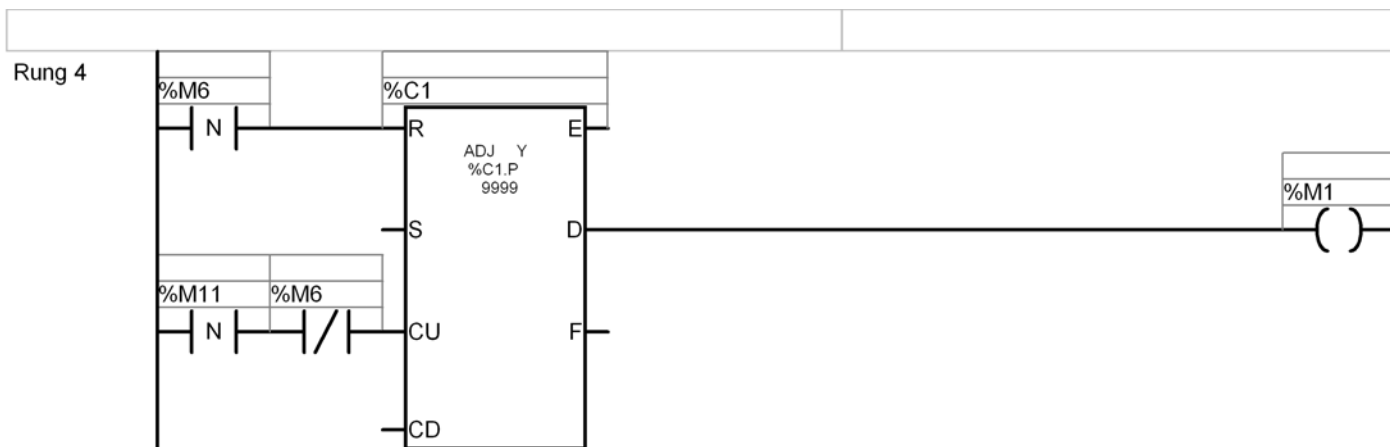
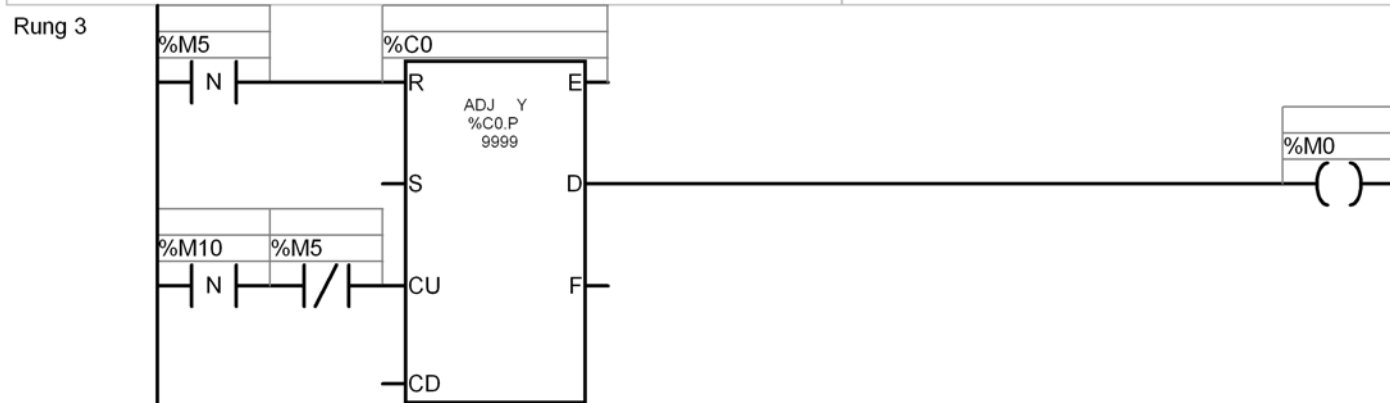
Hardware configuration

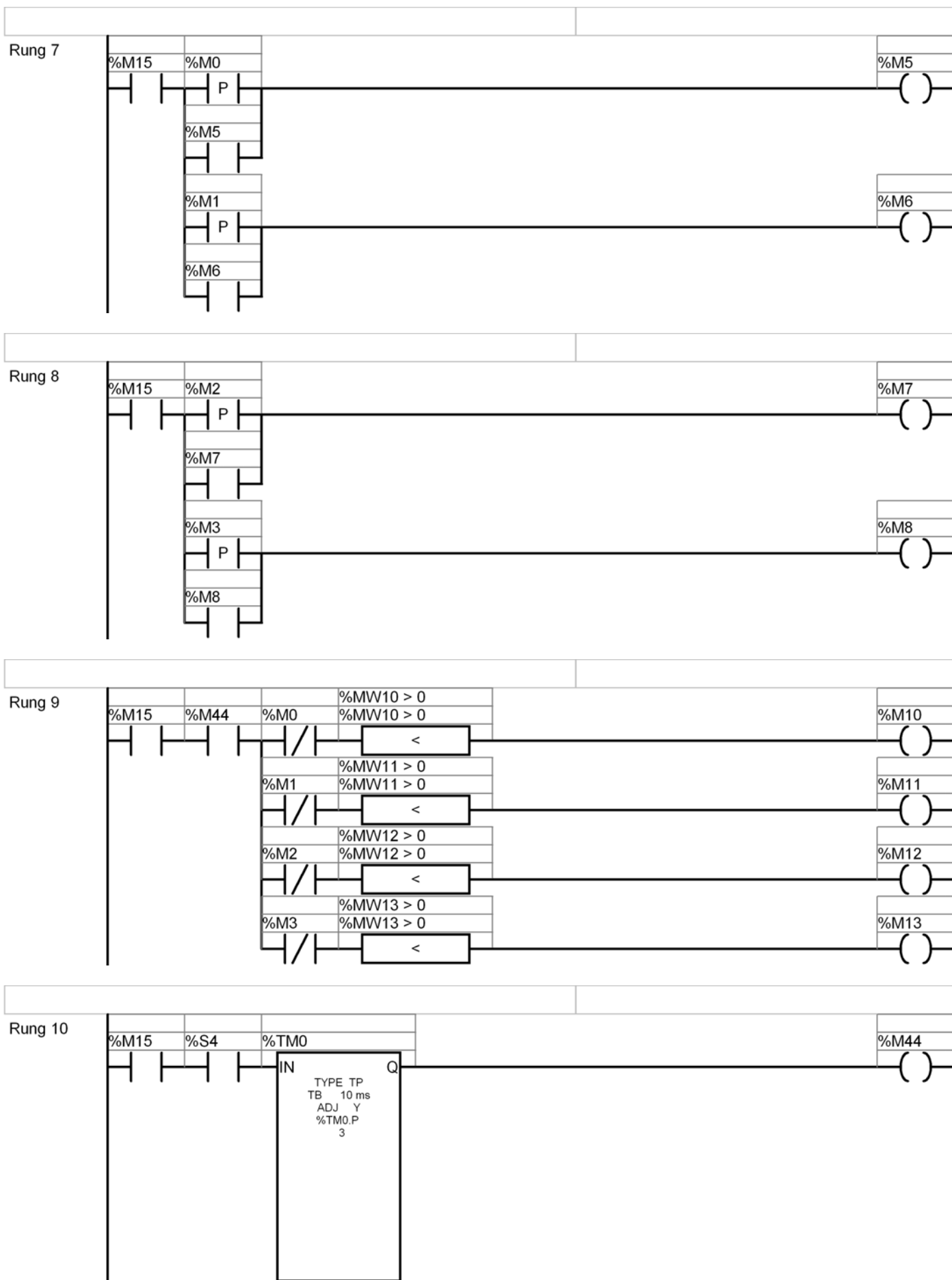
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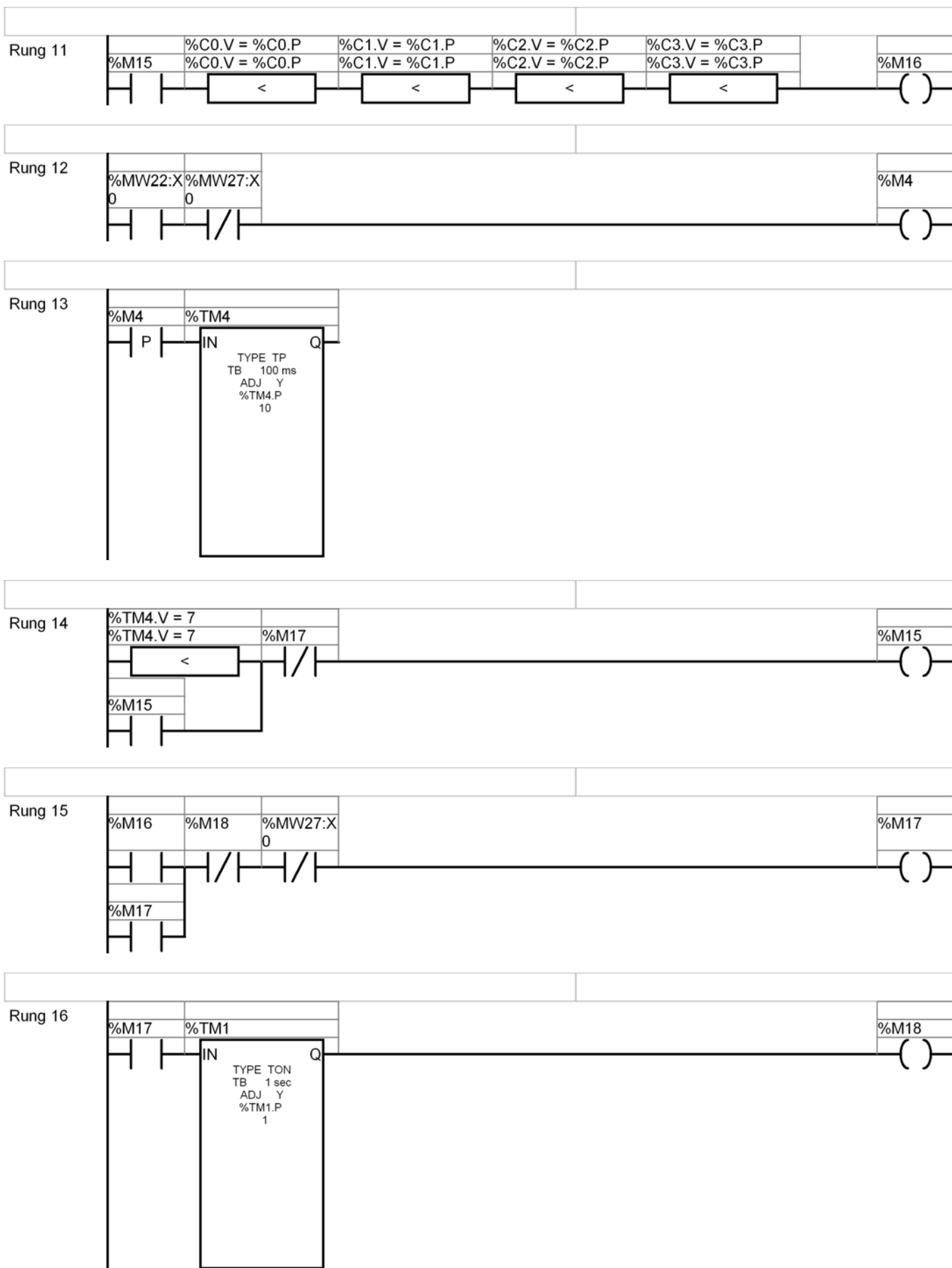
TWDLMDA20D-K

Program lists and diagrams

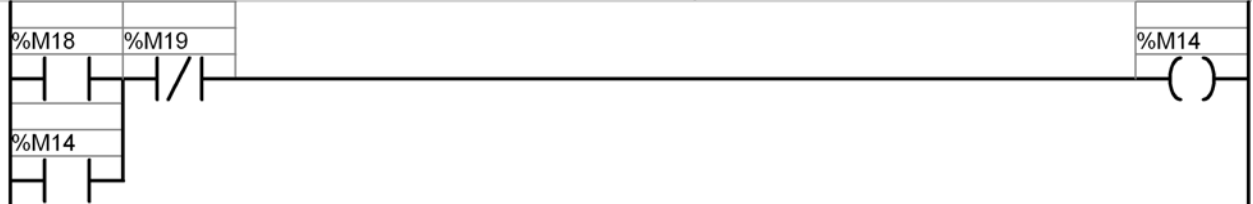




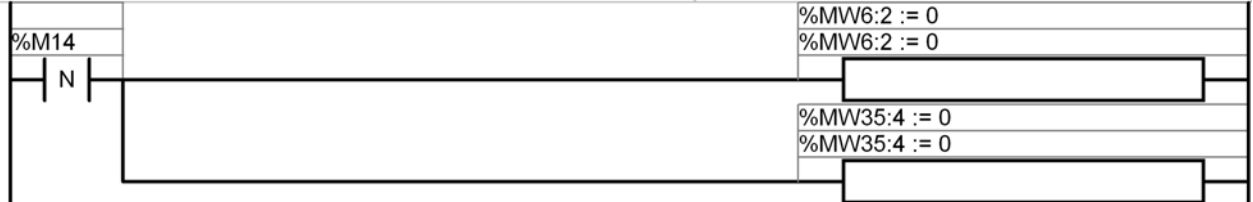




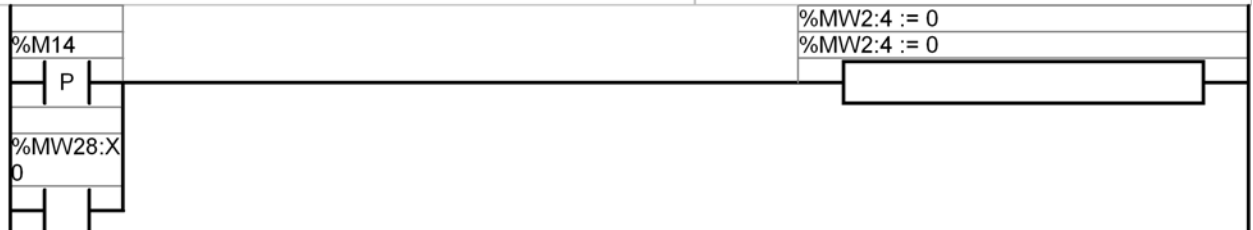
Rung 17



Rung 18



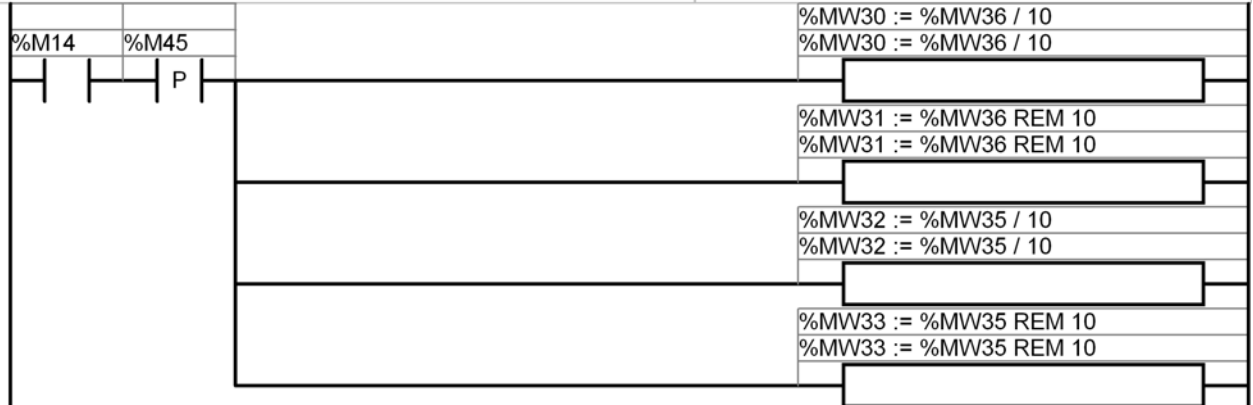
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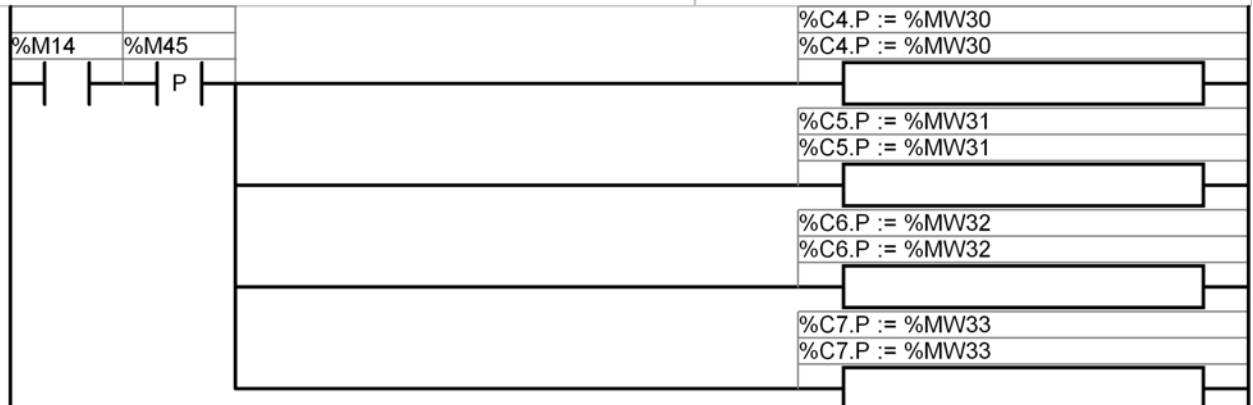
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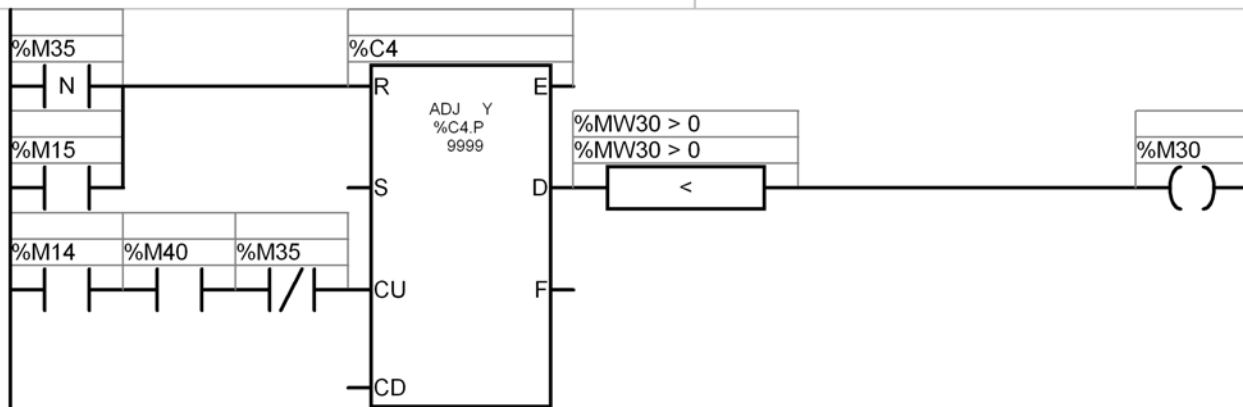
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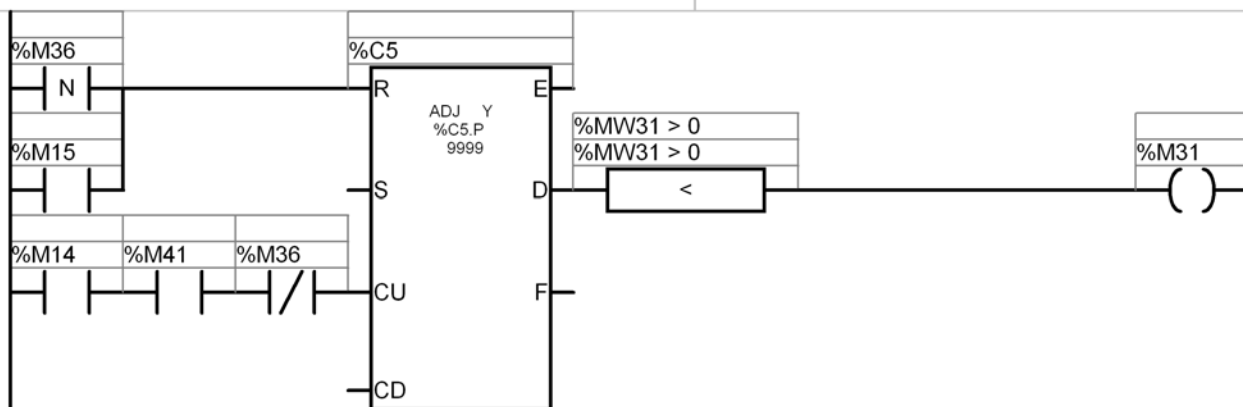
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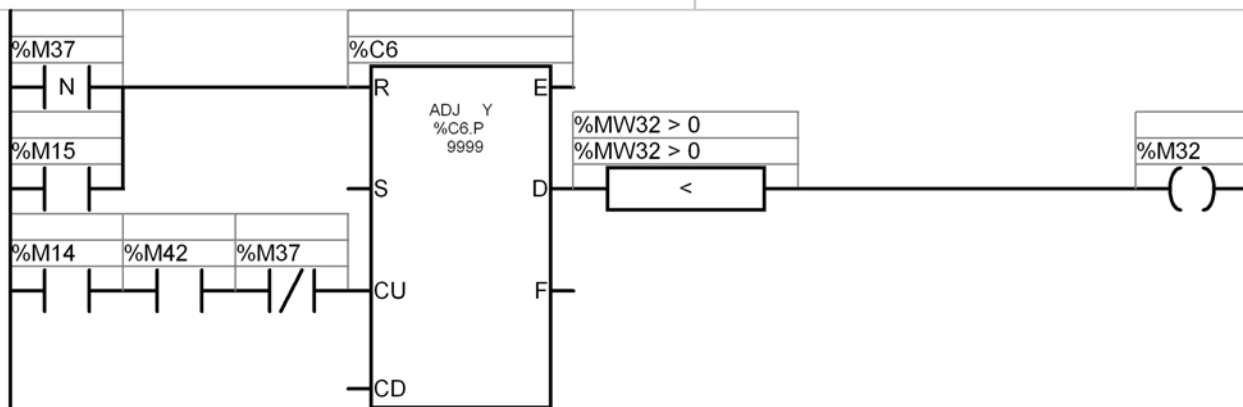
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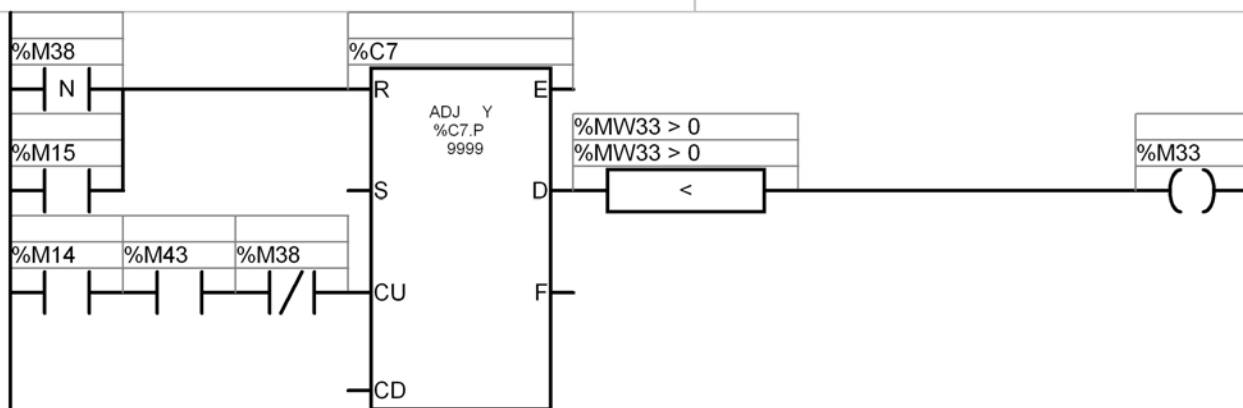
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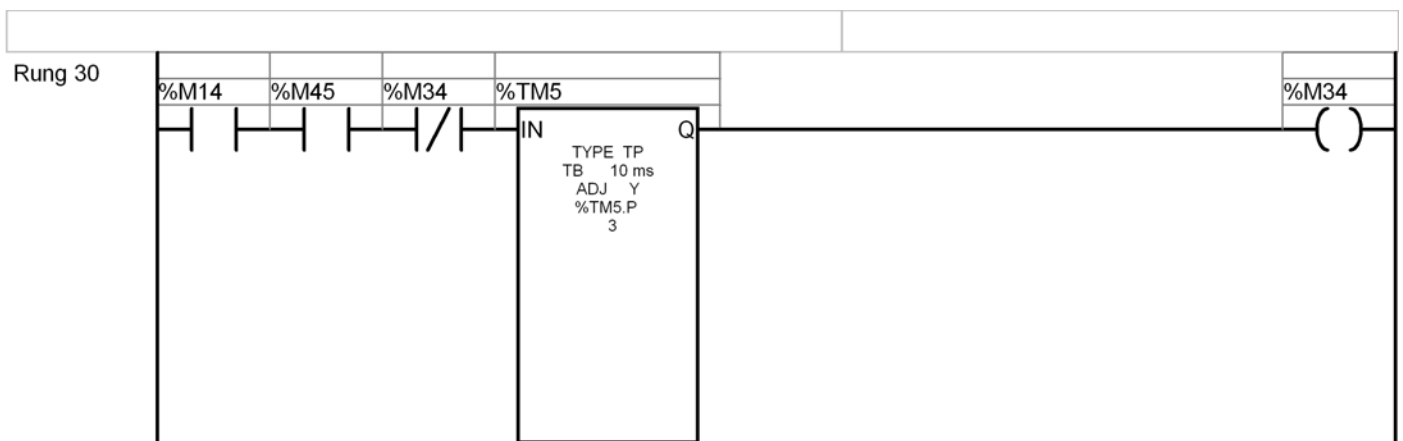
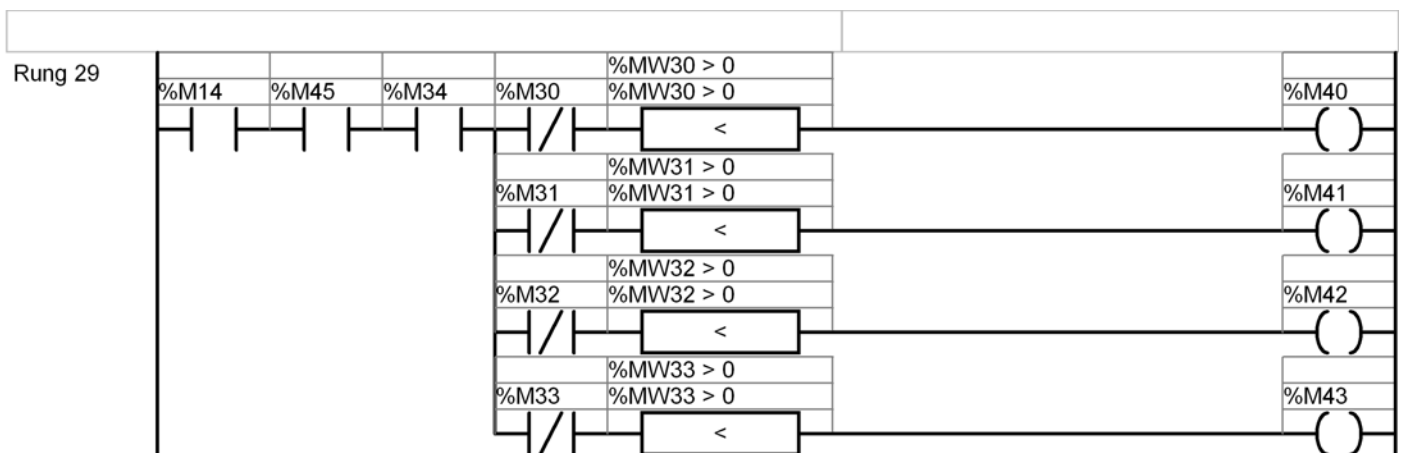
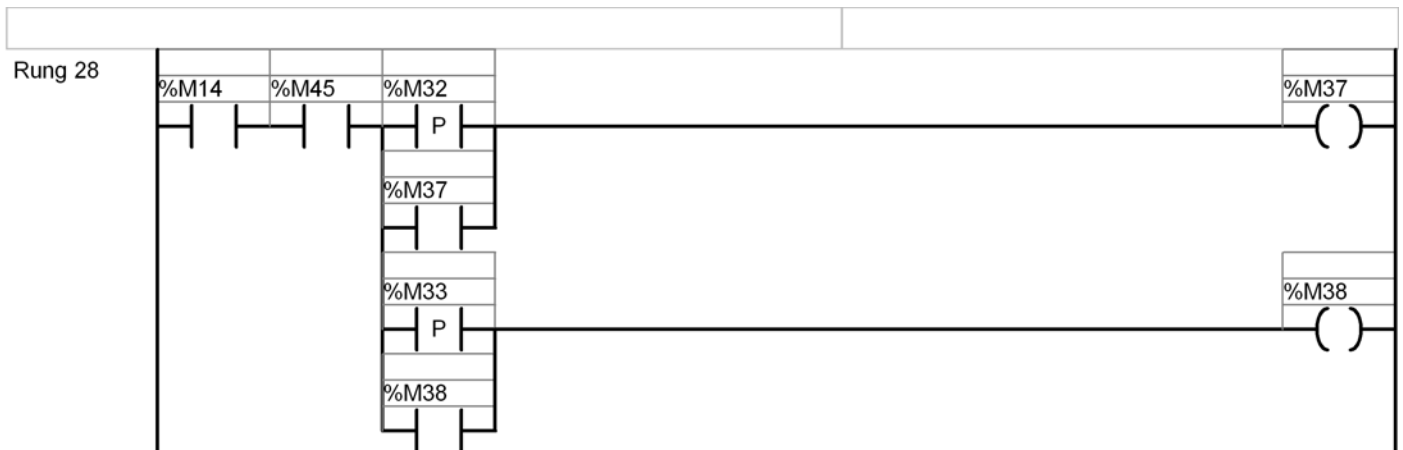
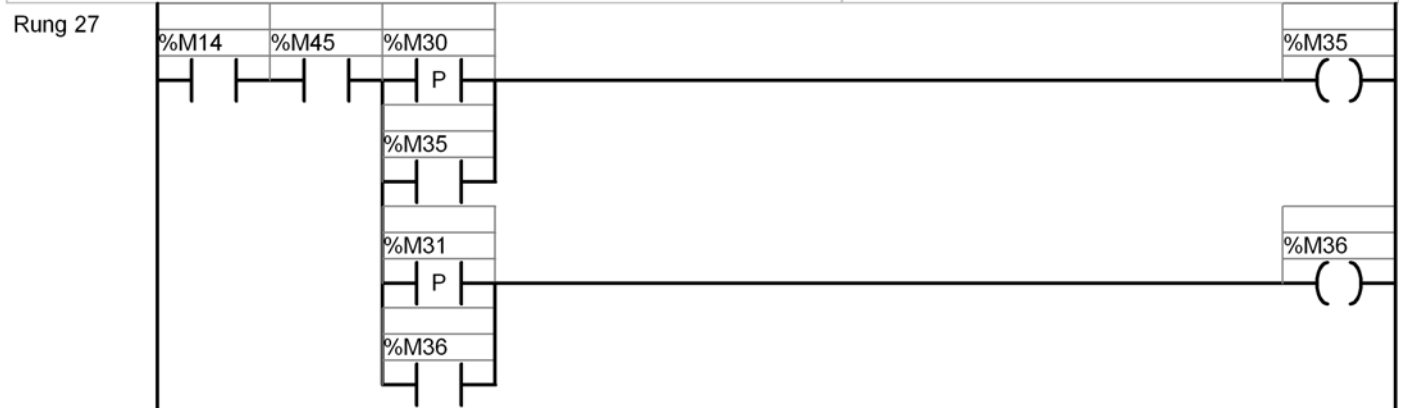


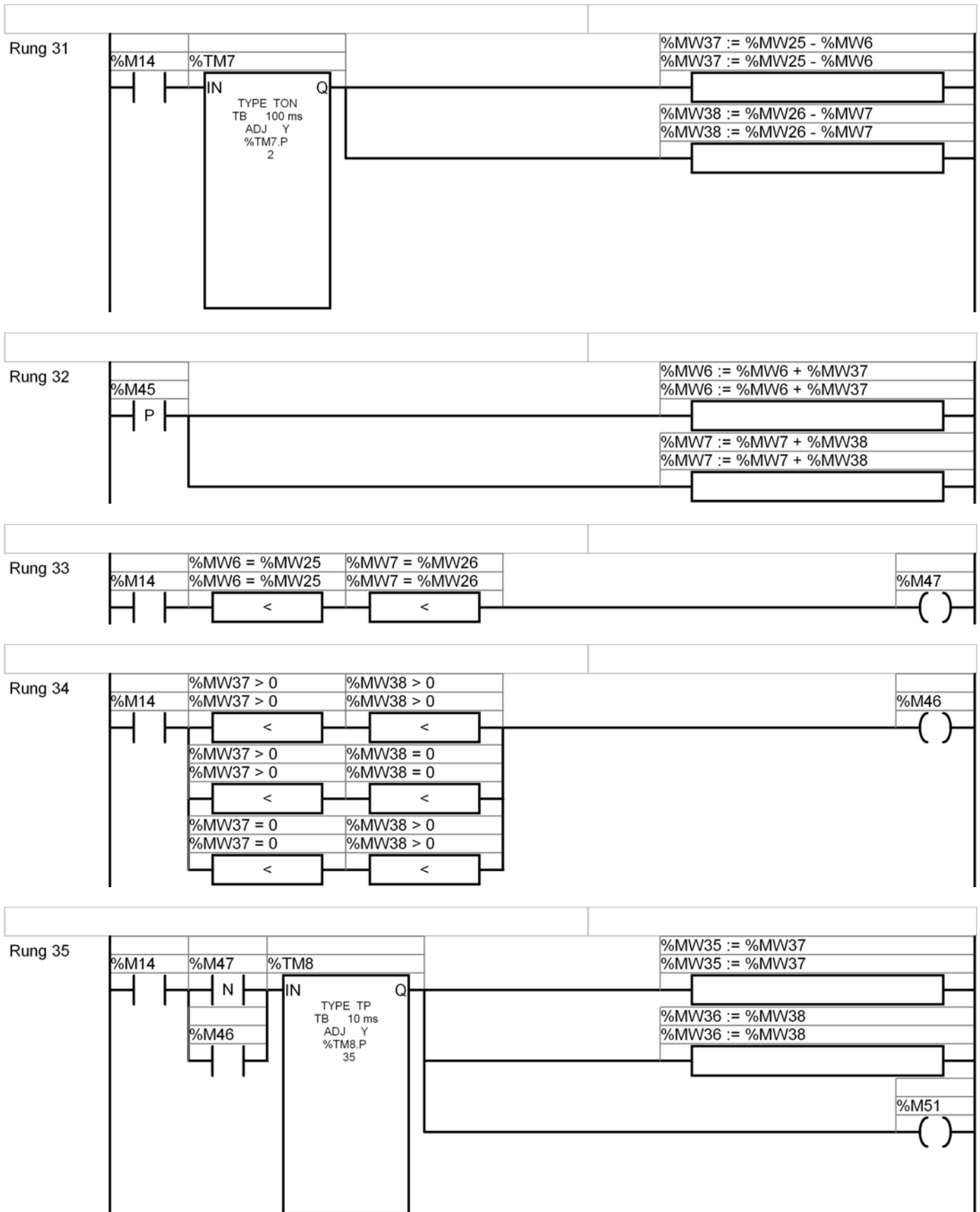
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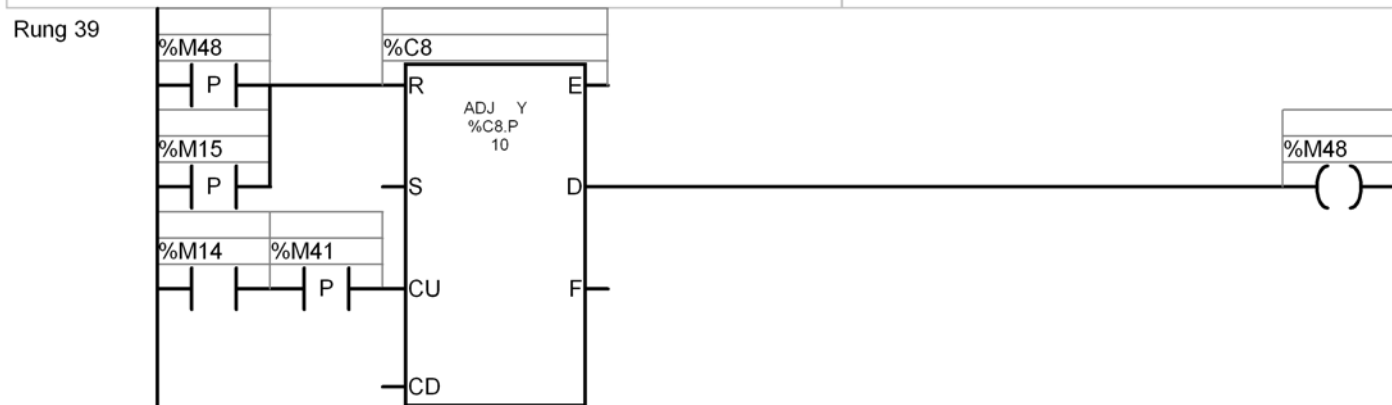
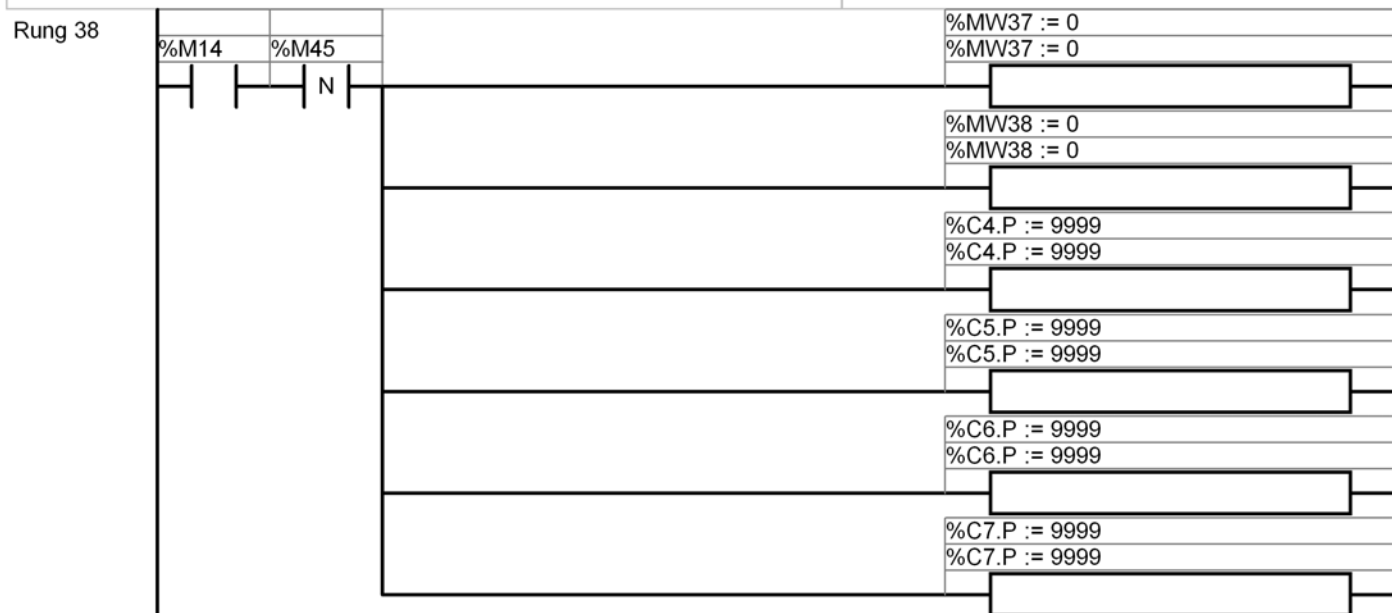
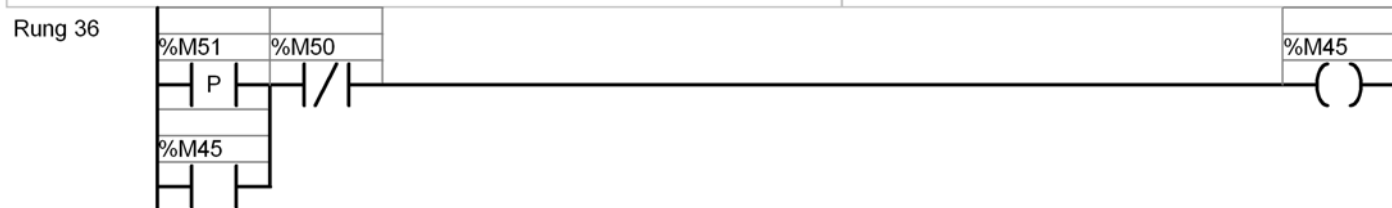


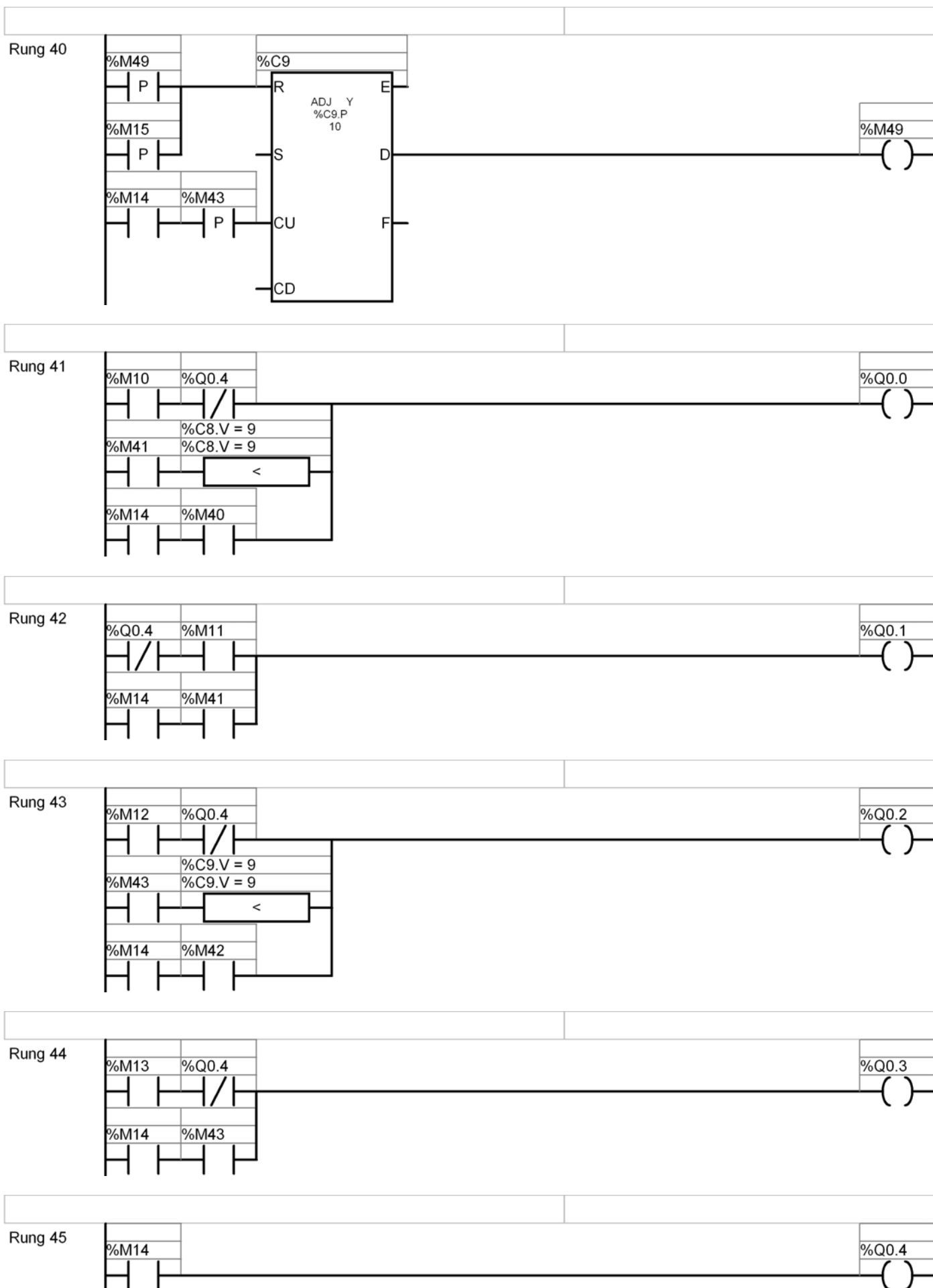
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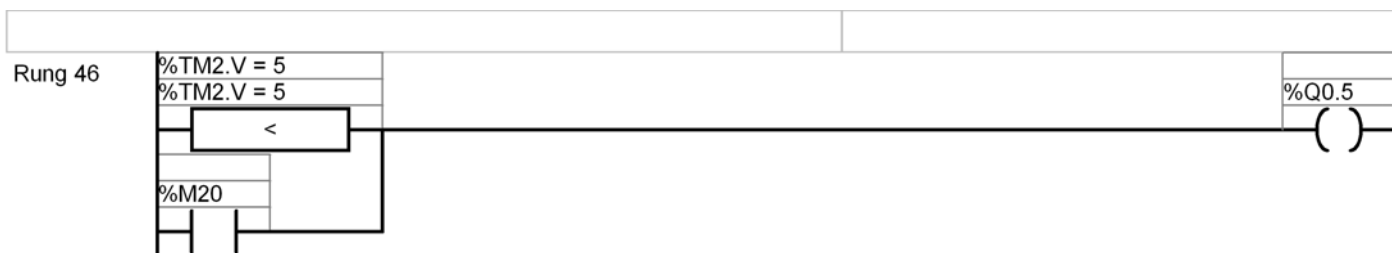




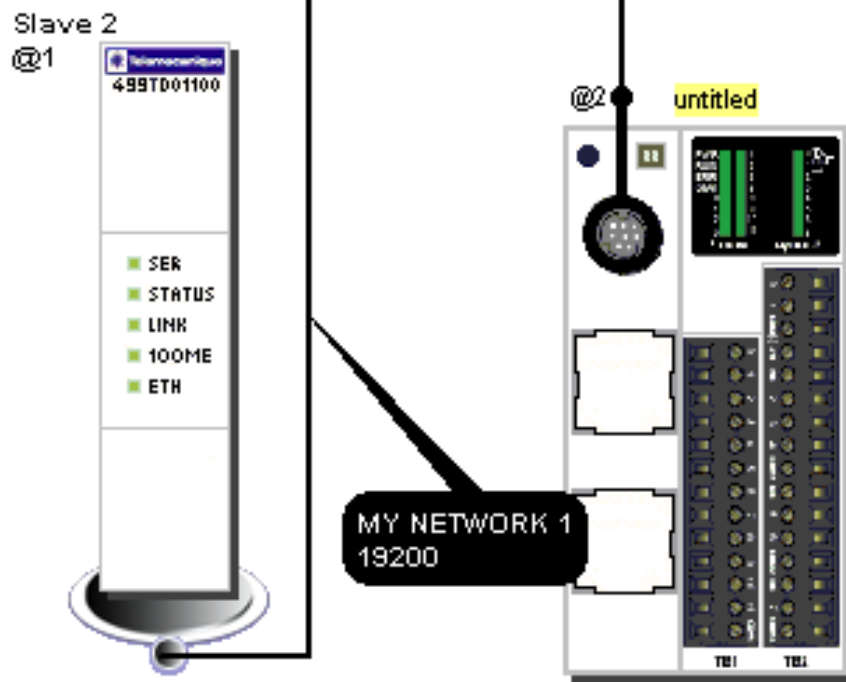








Symbols

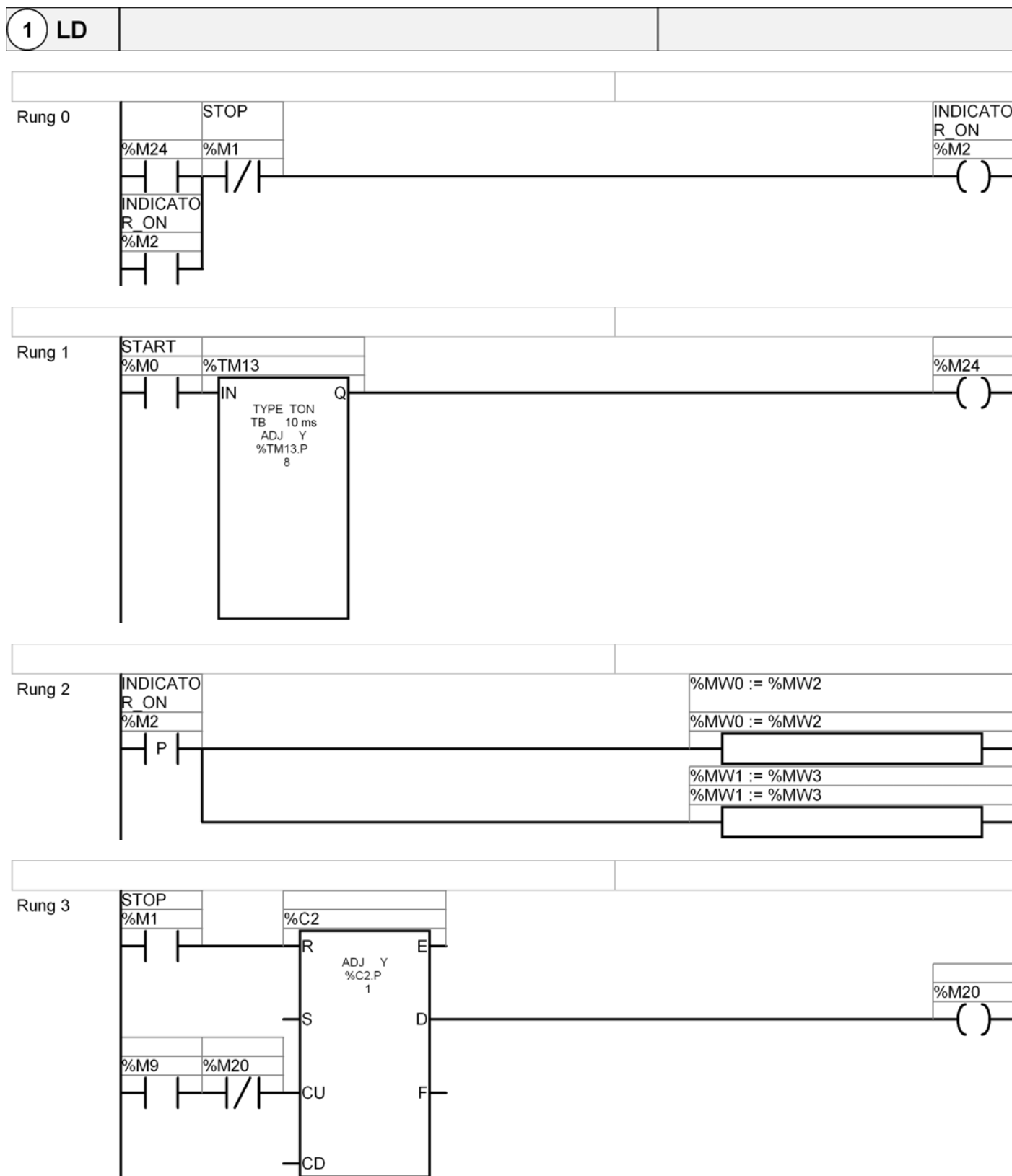


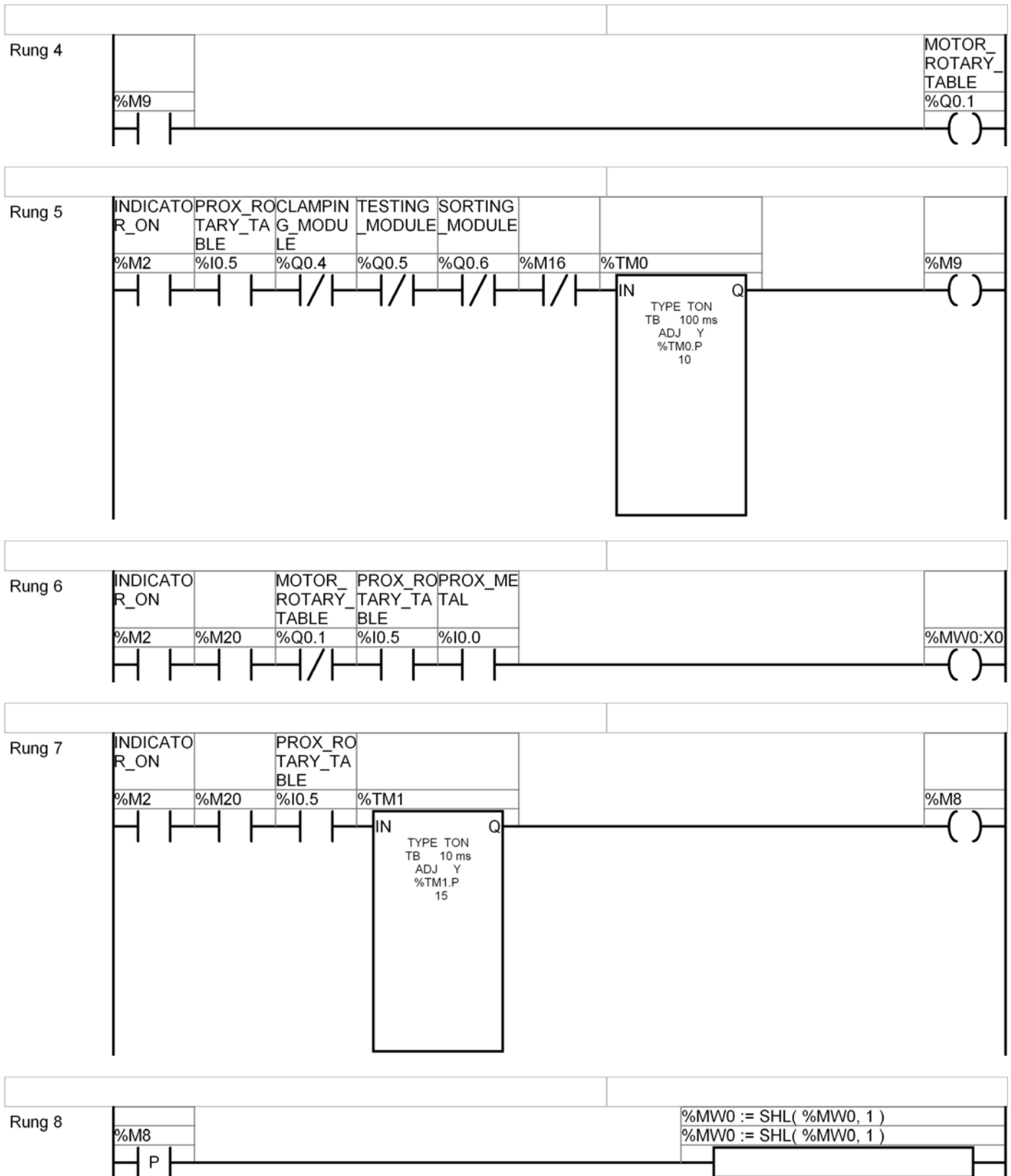
Hardware configuration

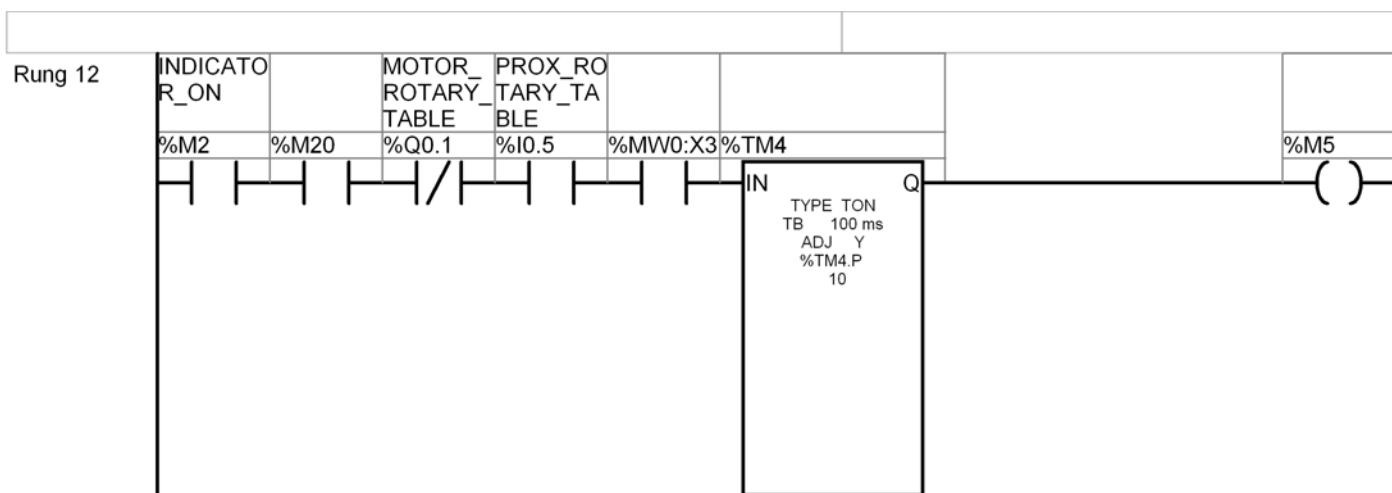
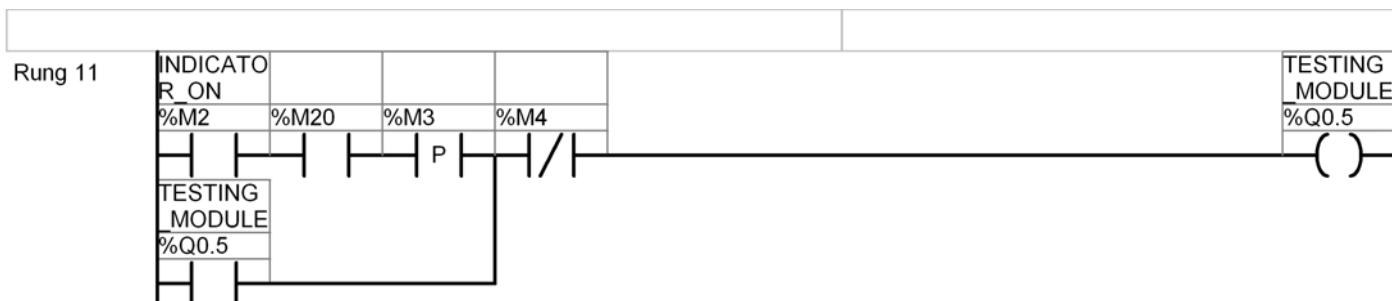
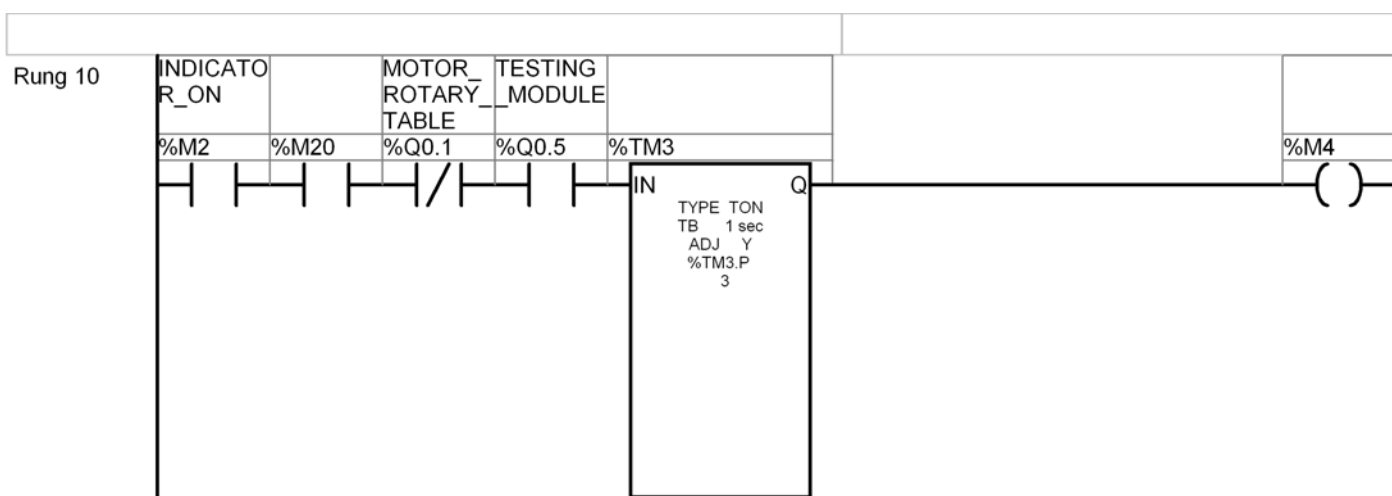
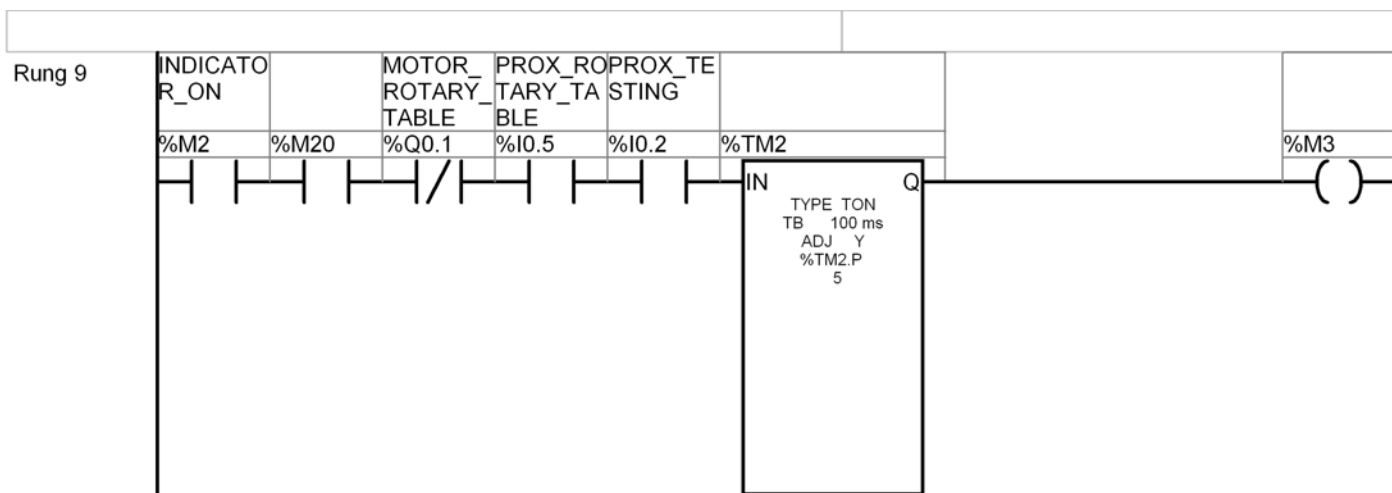
Base

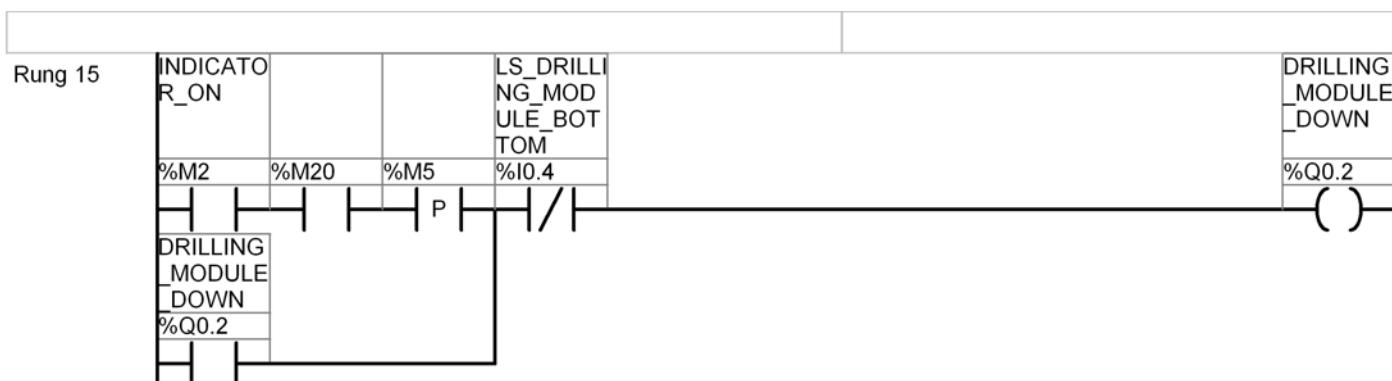
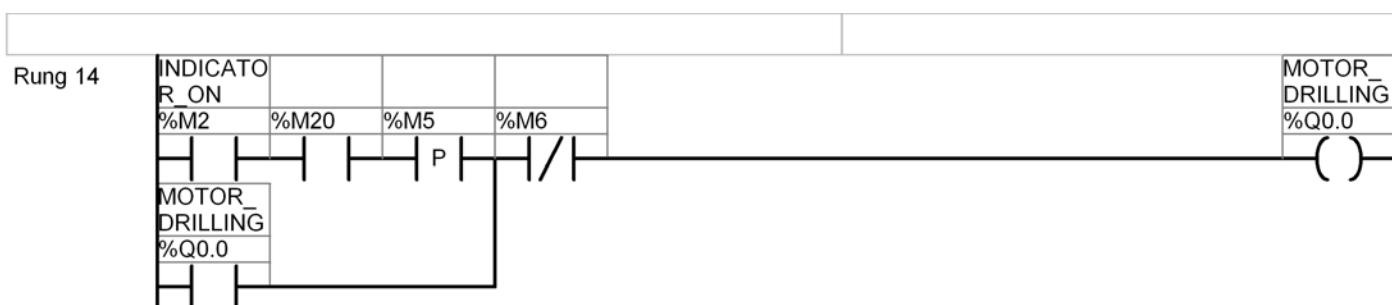
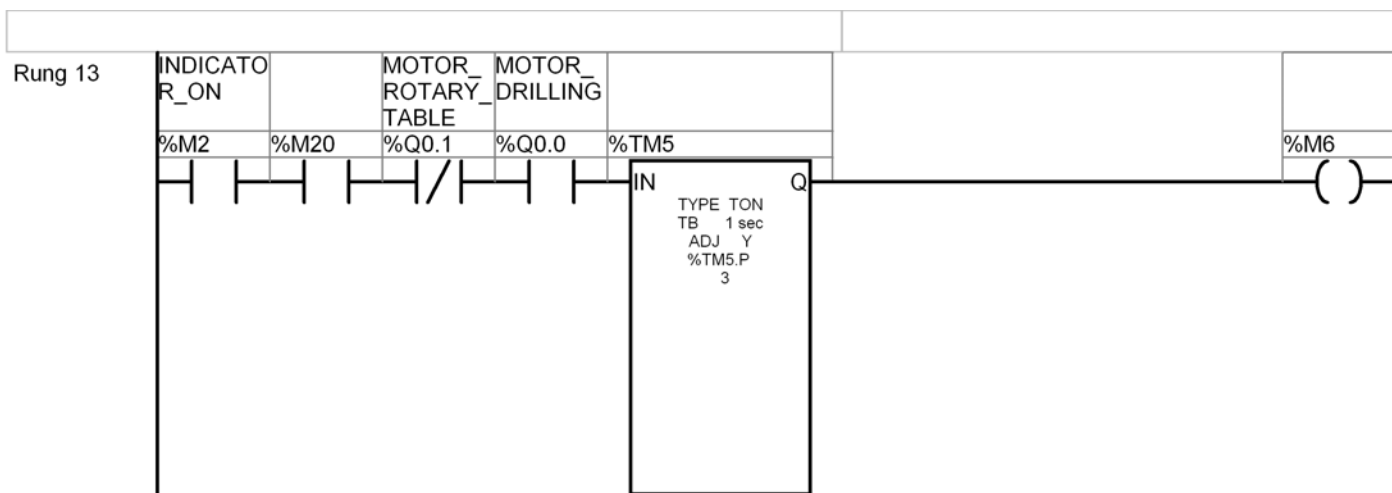
TWDLMDA20DRT

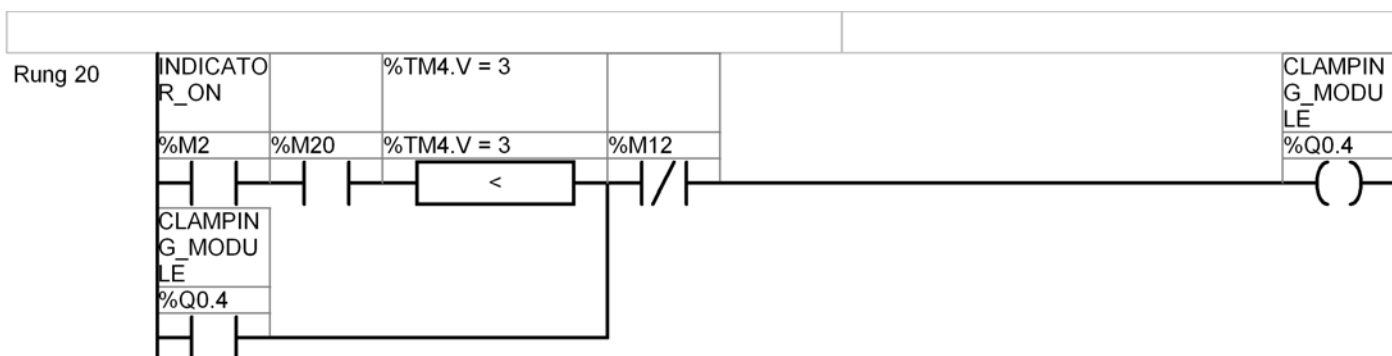
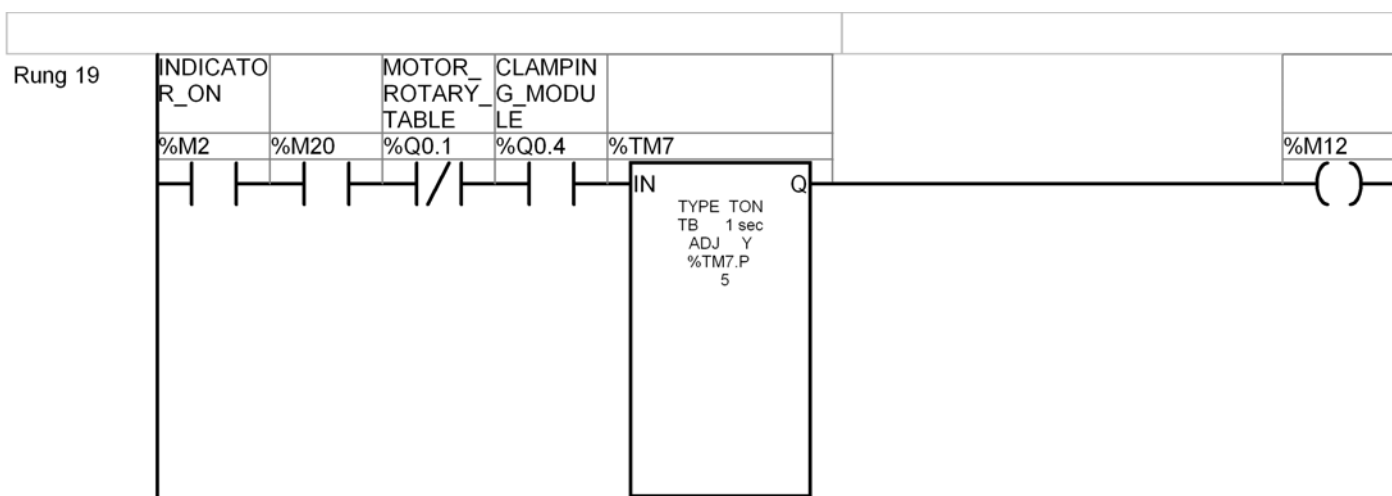
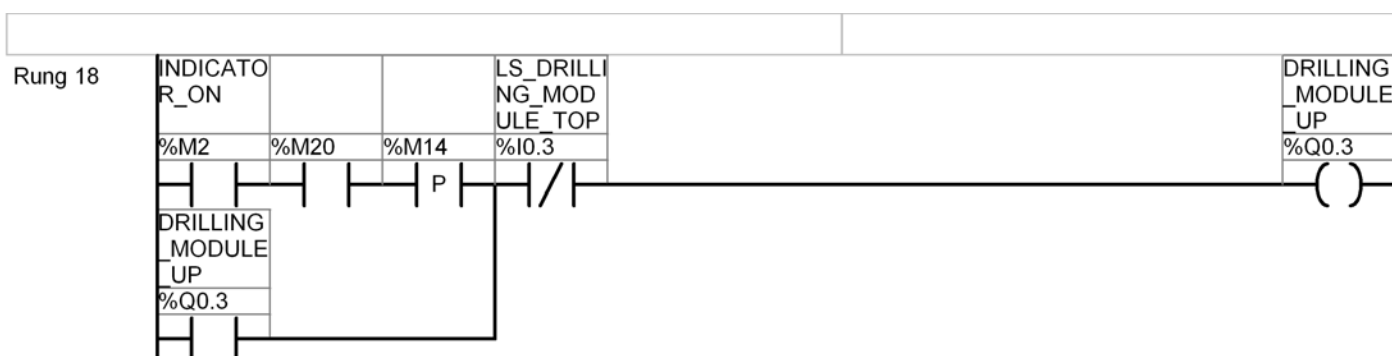
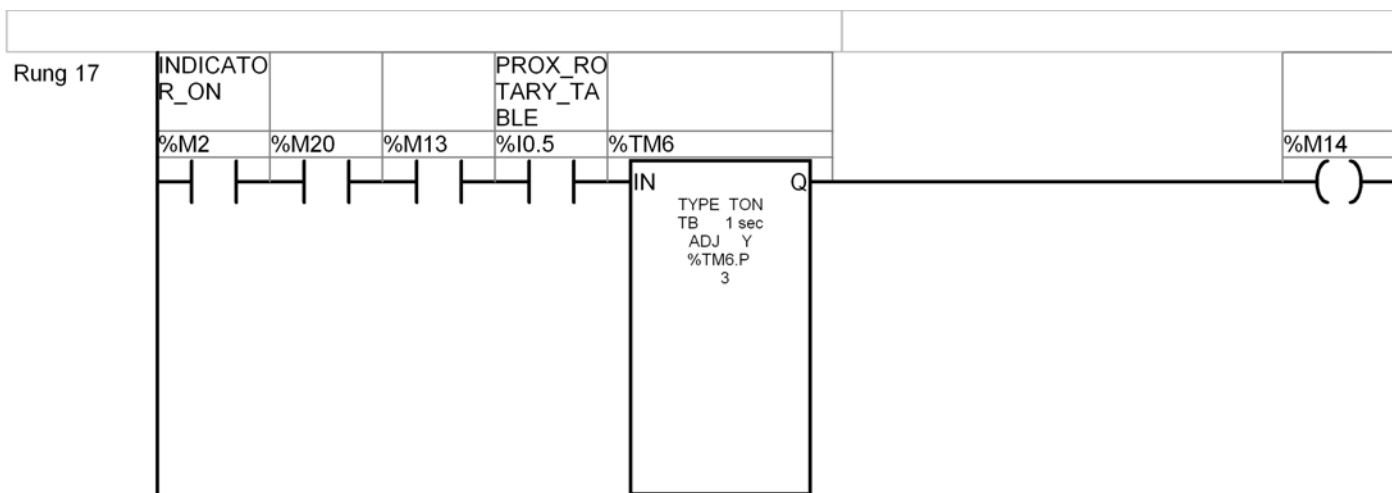
Program lists and diagrams

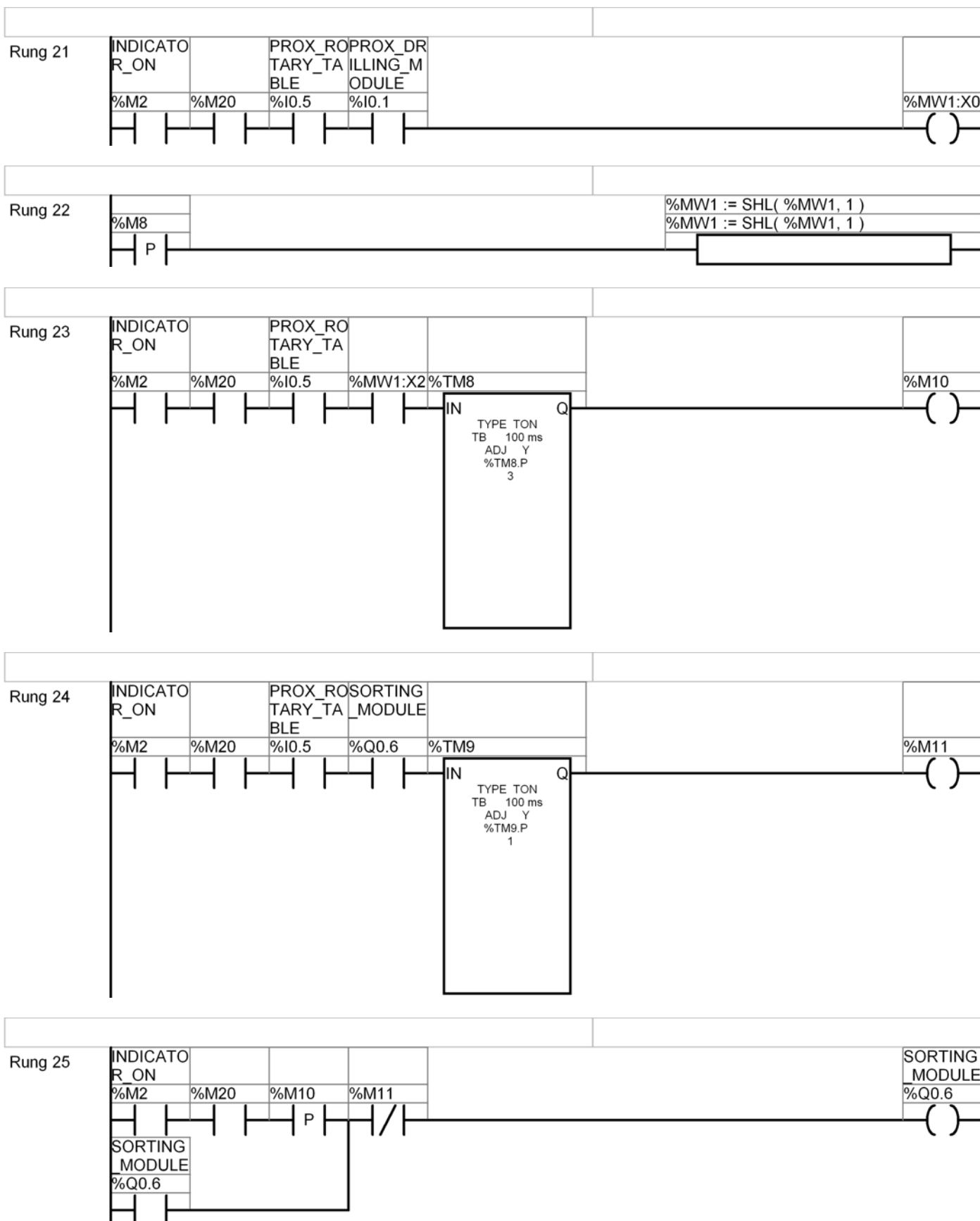




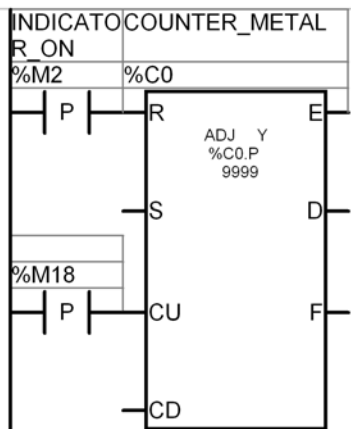




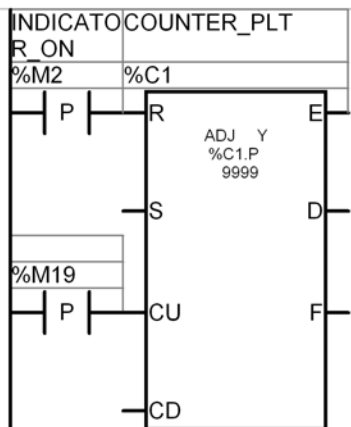




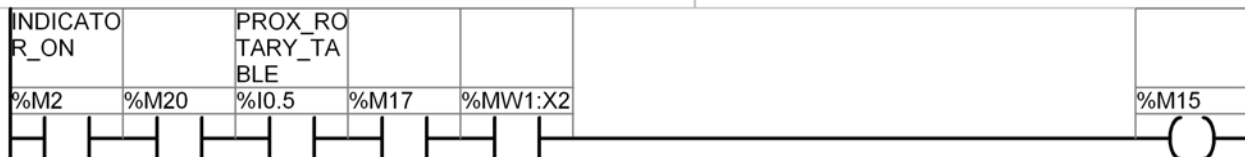
Rung 26



Rung 27

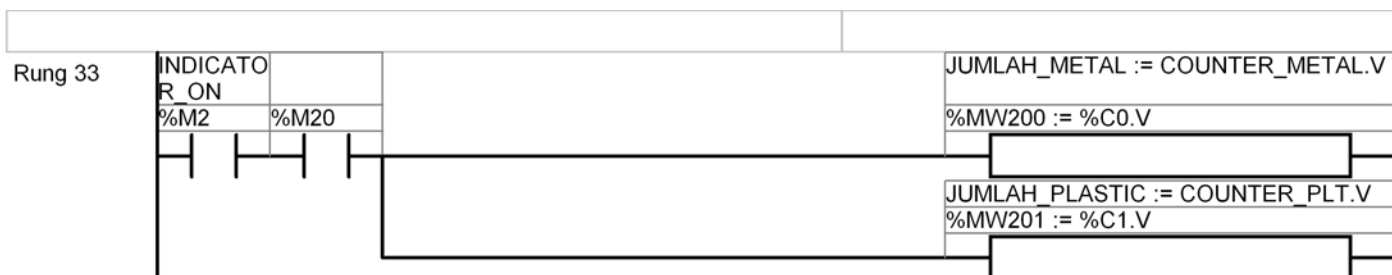
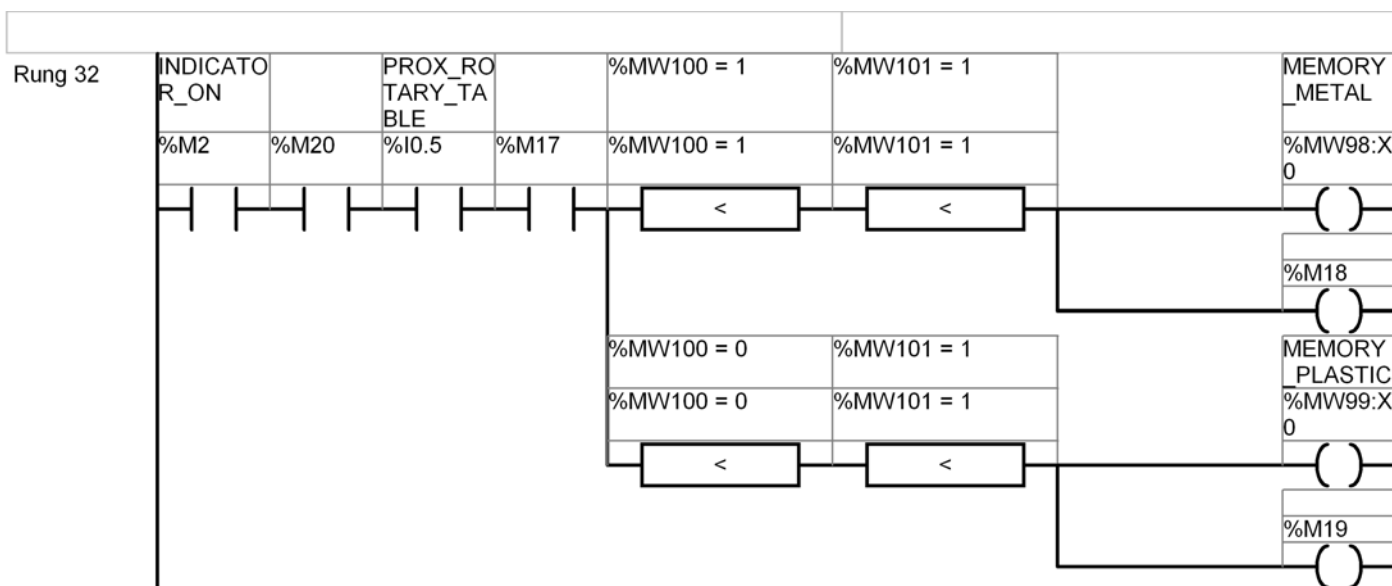
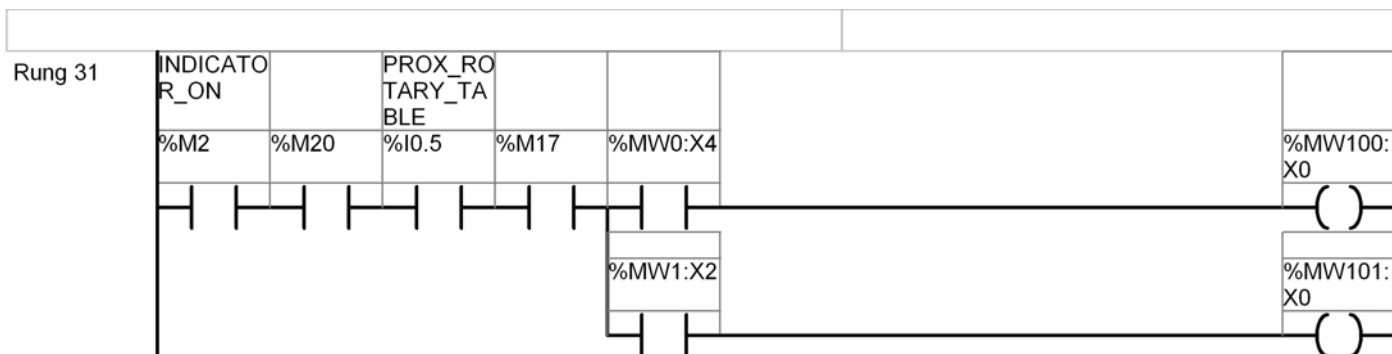


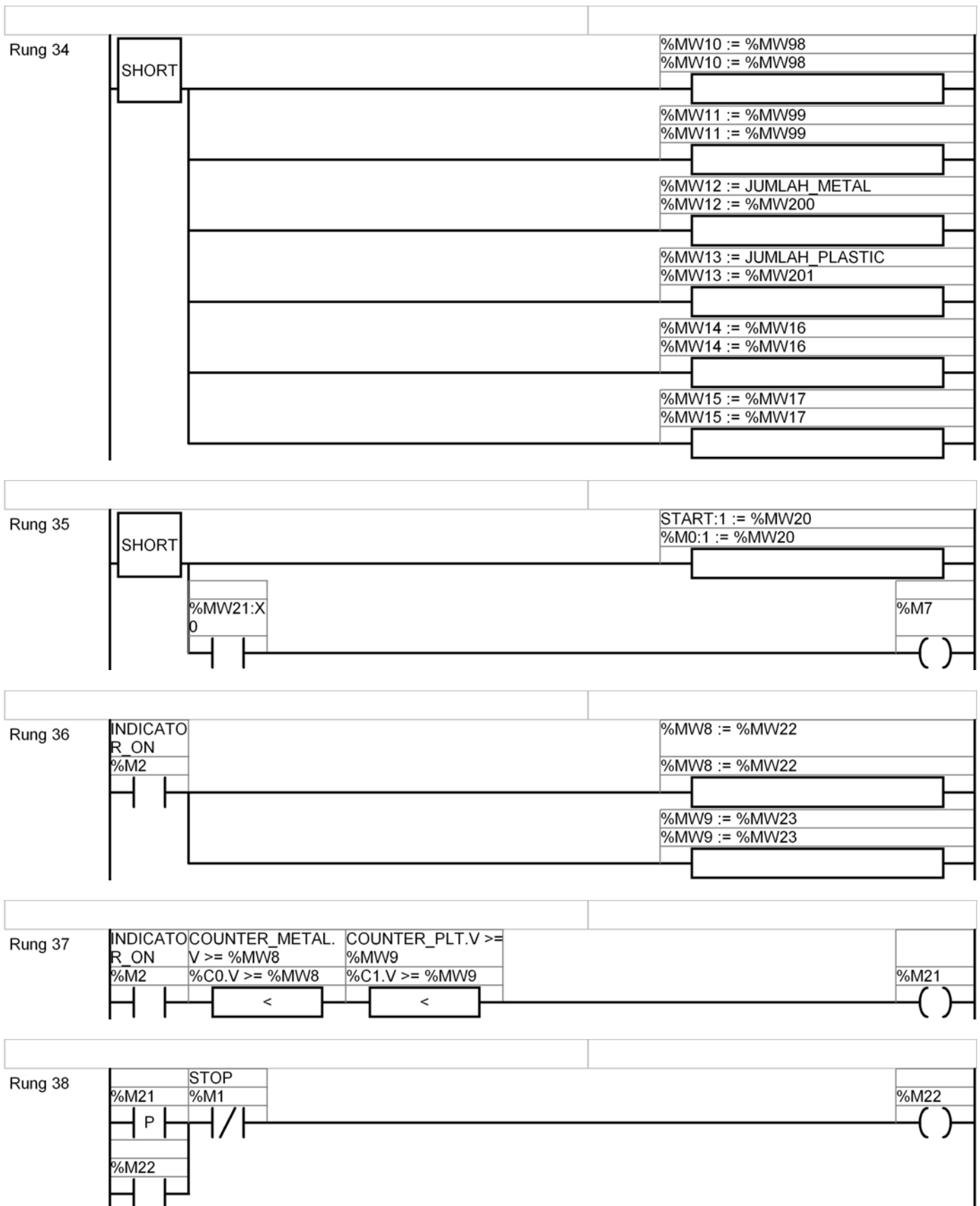
Rung 28

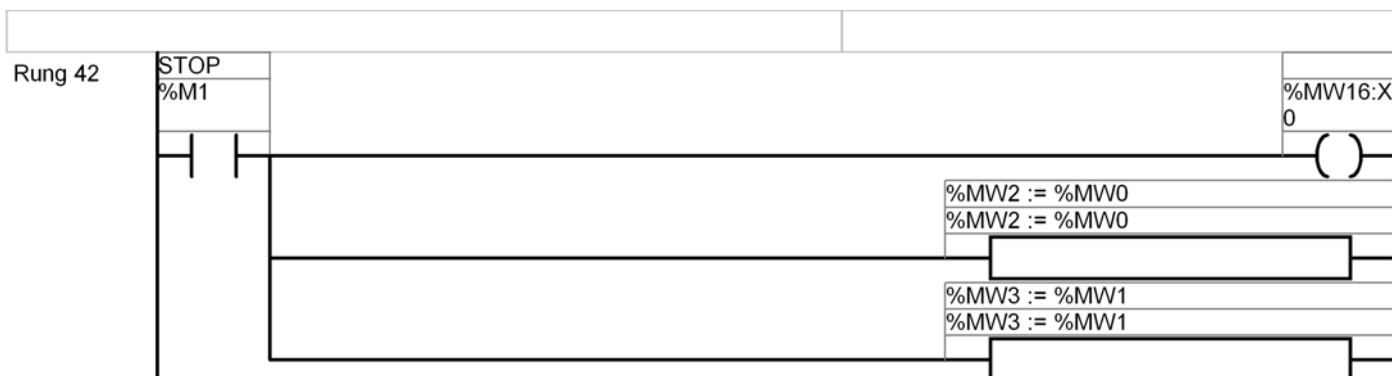
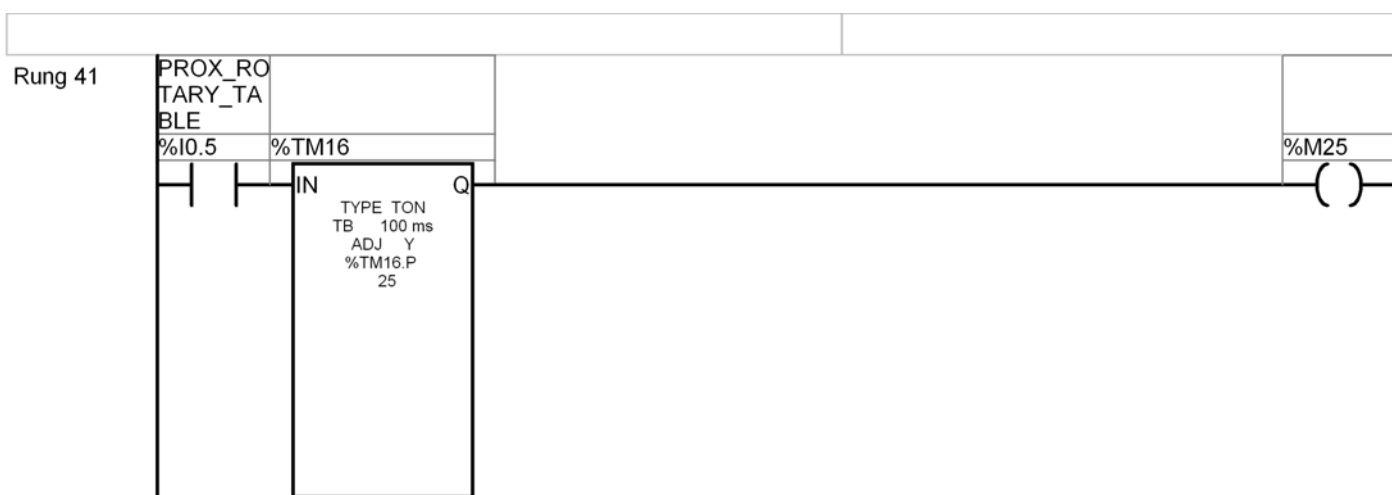
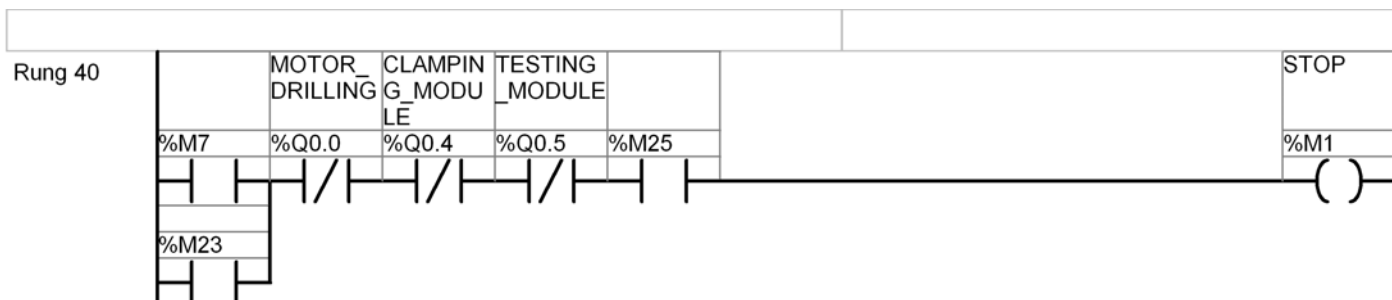


Rung 29



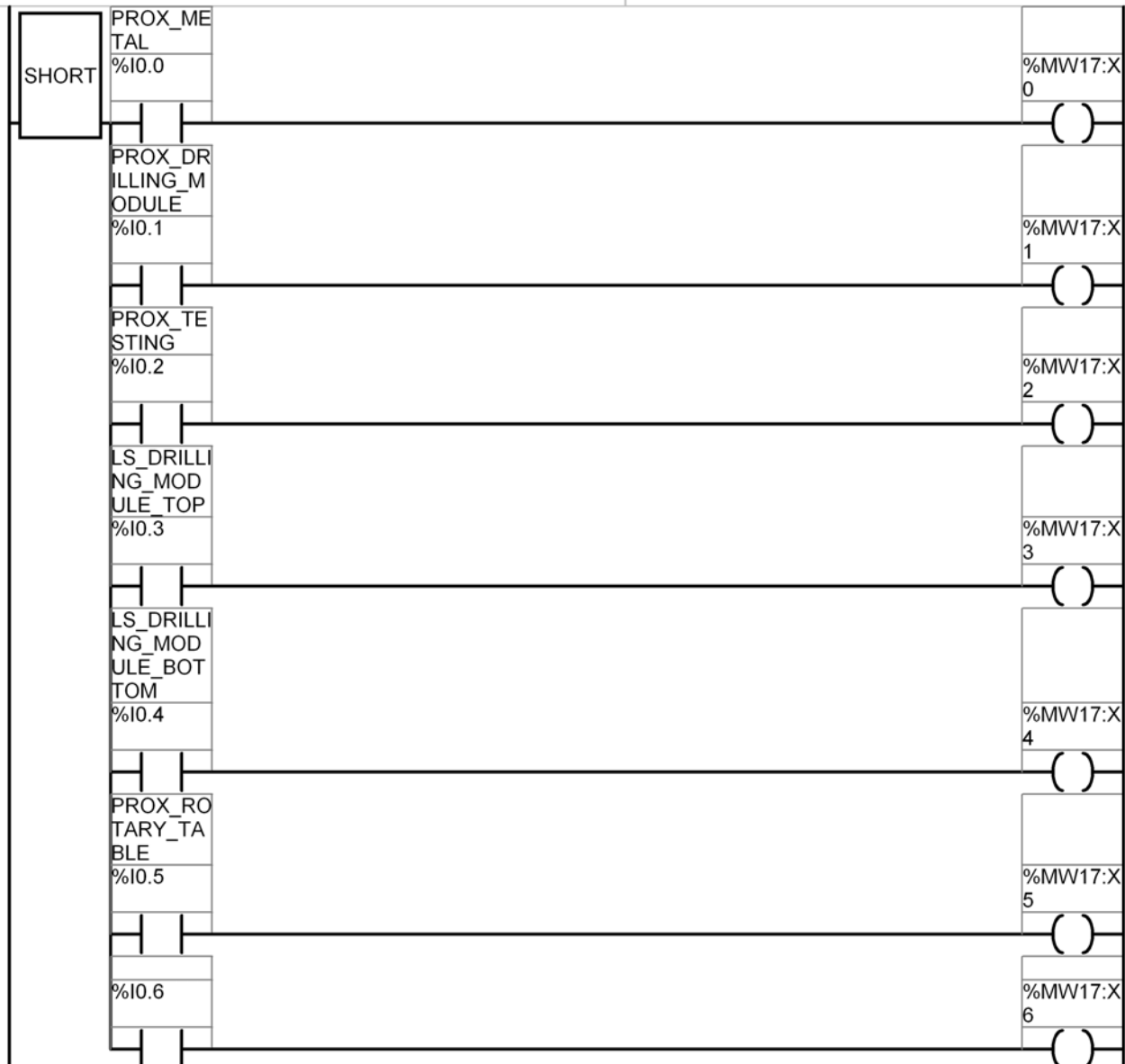






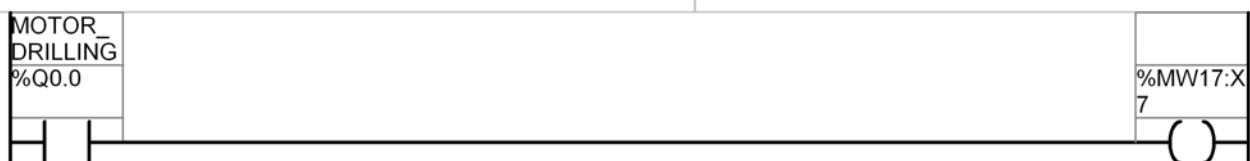
INPUT

Rung 44

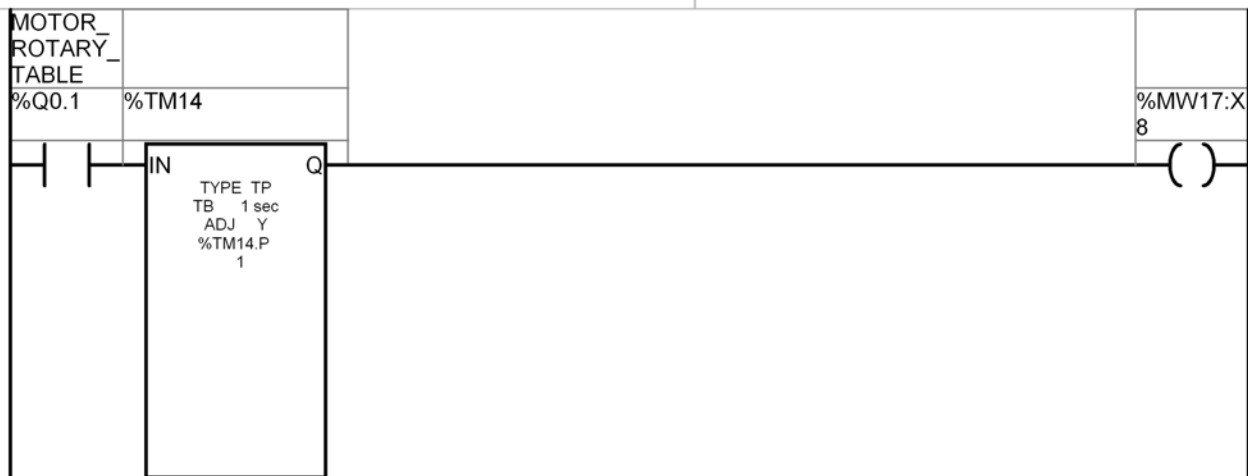


OUTPUT

Rung 45



Rung 46

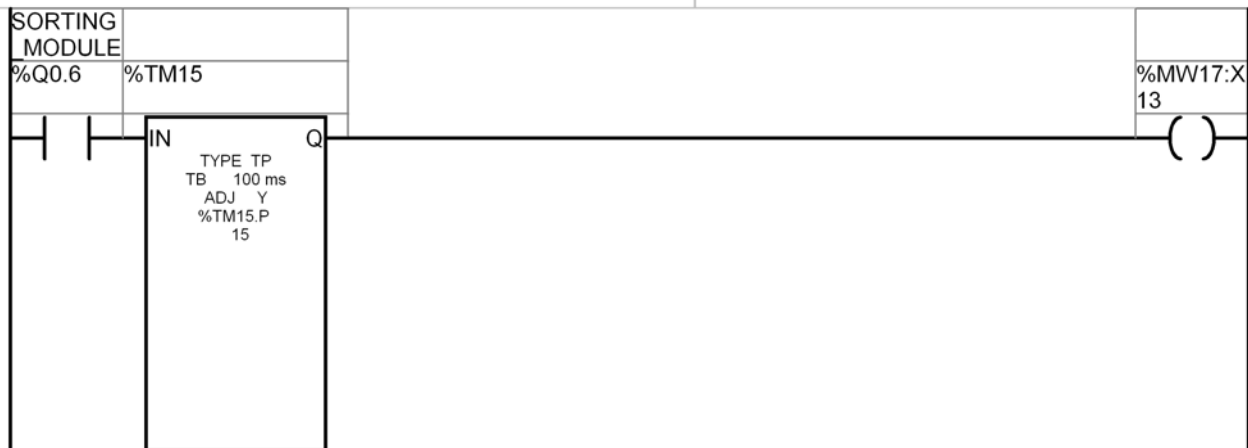


OUTPUT

Rung 47

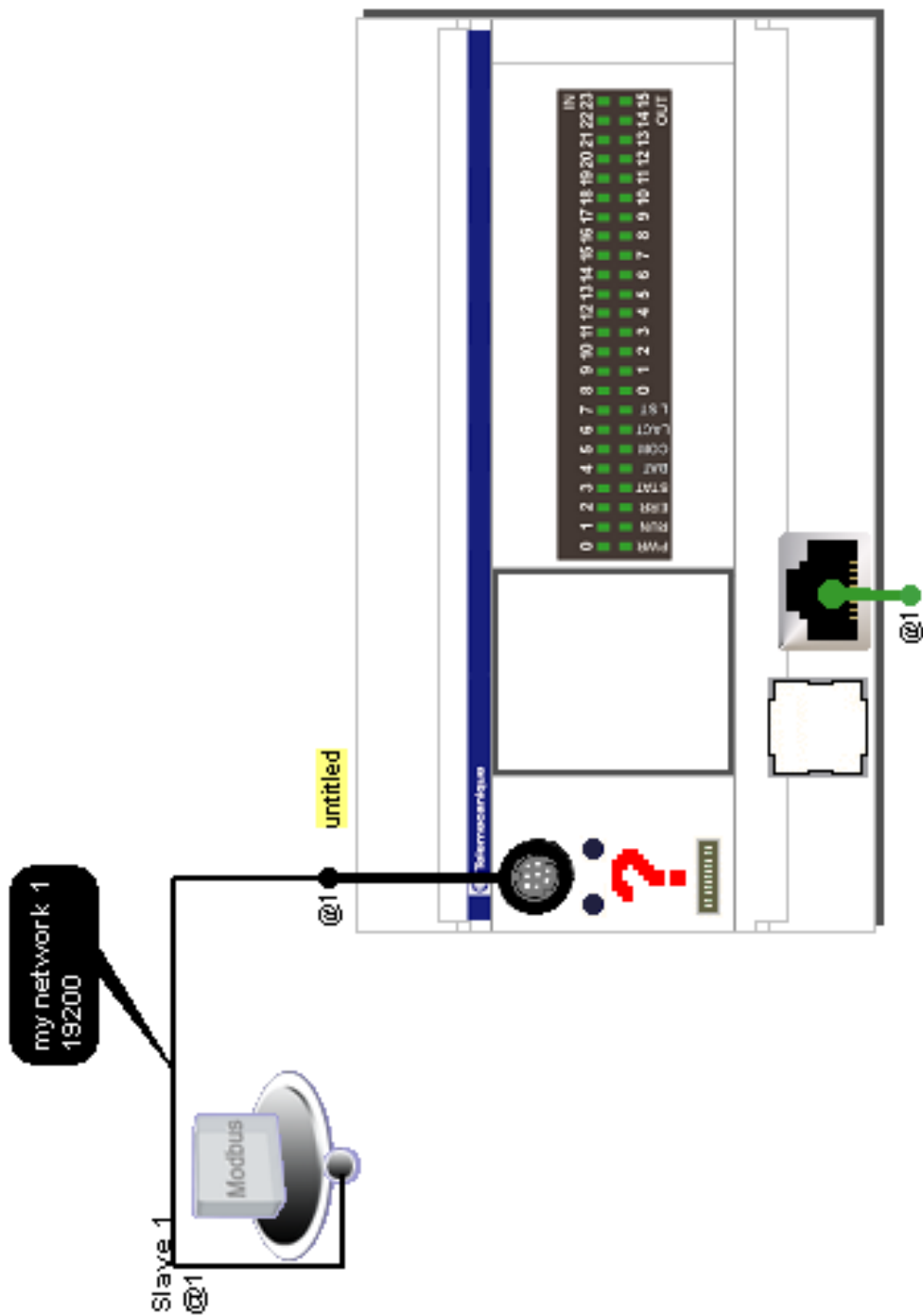


Rung 48



Symbols

Used	Address	Symbol	Comment
Yes	%Q0.4	CLAMPING_MODULE	
Yes	%C0	COUNTER_METAL	
Yes	%C1	COUNTER_PLT	
Yes	%Q0.2	DRILLING_MODULE_DOWN	
Yes	%Q0.3	DRILLING_MODULE_UP	
Yes	%M2	INDICATOR_ON	
Yes	%MW200	JUMLAH_METAL	
Yes	%MW201	JUMLAH_PLASTIC	
Yes	%I0.4	LS_DRILLING_MODULE_BOTTOM	
Yes	%I0.3	LS_DRILLING_MODULE_TOP	
Yes	%MW98:X0	MEMORY_METAL	
Yes	%MW99:X0	MEMORY_PLASTIC	
Yes	%Q0.0	MOTOR_DRILLING	
Yes	%Q0.1	MOTOR_ROTARY_TABLE	
Yes	%I0.1	PROX_DRILLING_MODULE	
Yes	%I0.0	PROX_METAL	
Yes	%I0.5	PROX_ROTARY_TABLE	
Yes	%I0.2	PROX_TESTING	
Yes	%Q0.6	SORTING_MODULE	
Yes	%M0	START	
Yes	%M1	STOP	
Yes	%Q0.5	TESTING_MODULE	

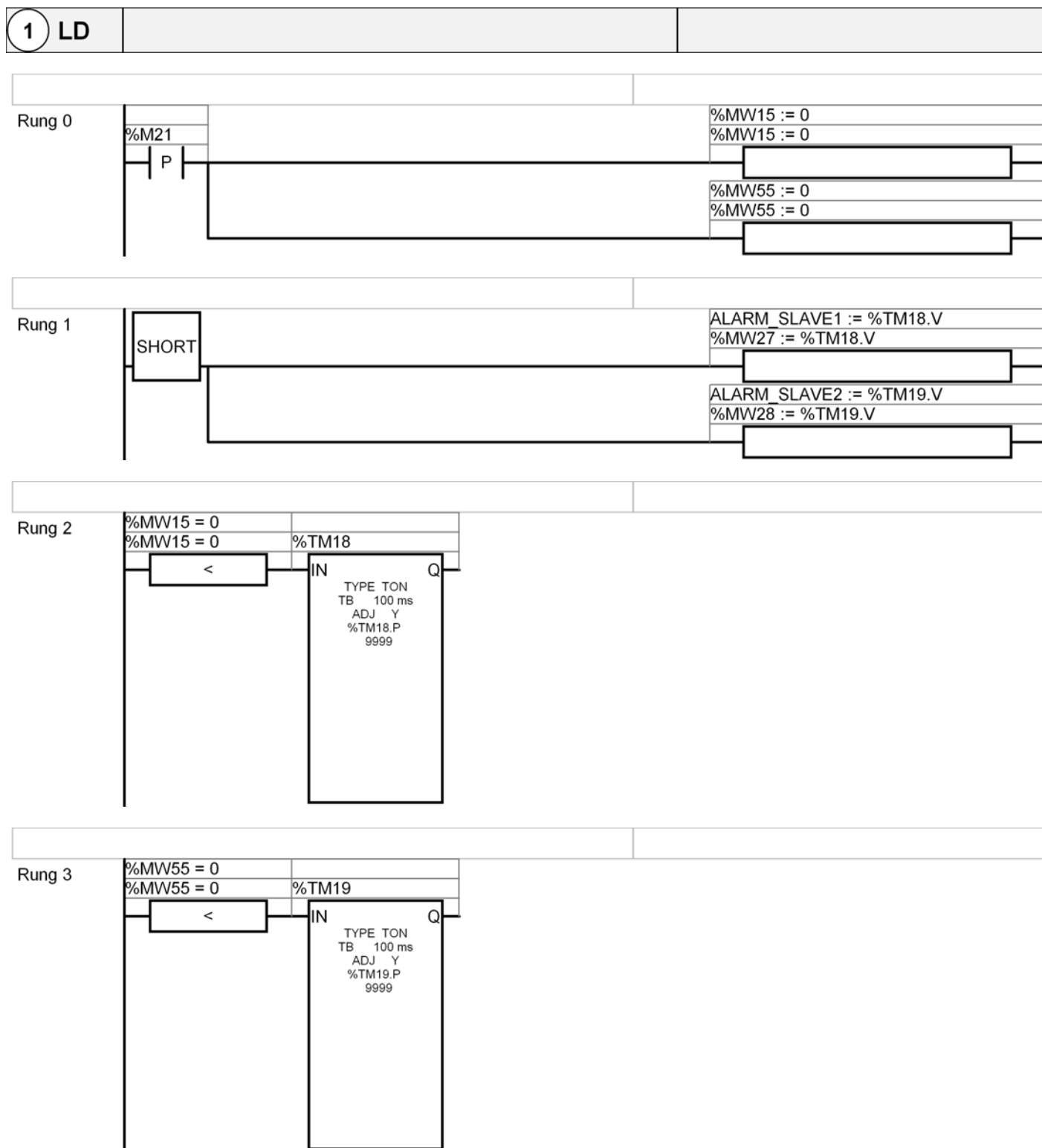


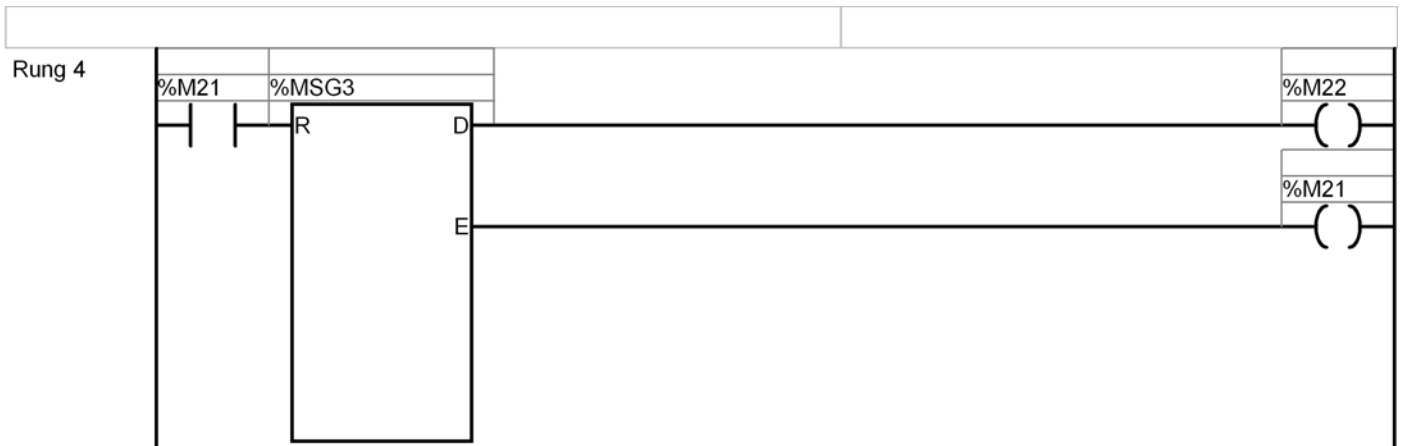
Hardware configuration

Base

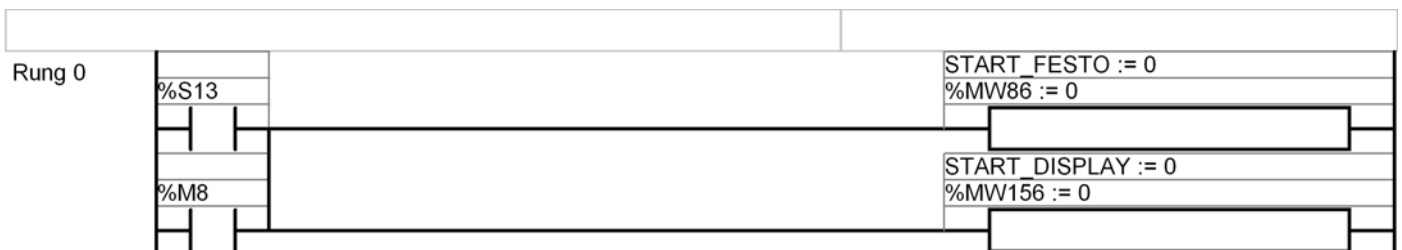
TWDLCE40DRF - Compact base controller, 40 points, 24 24V DC inputs, 14 2A relay outputs, 2 1A transistor outputs. Timer and calendar. Ethernet 100BaseTx. Removable Battery. Non-removable terminal blocks.

Program lists and diagrams

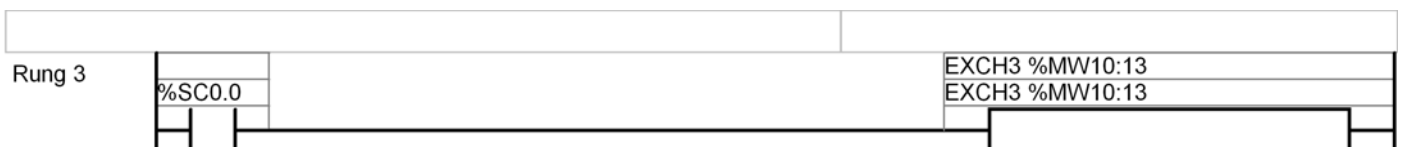
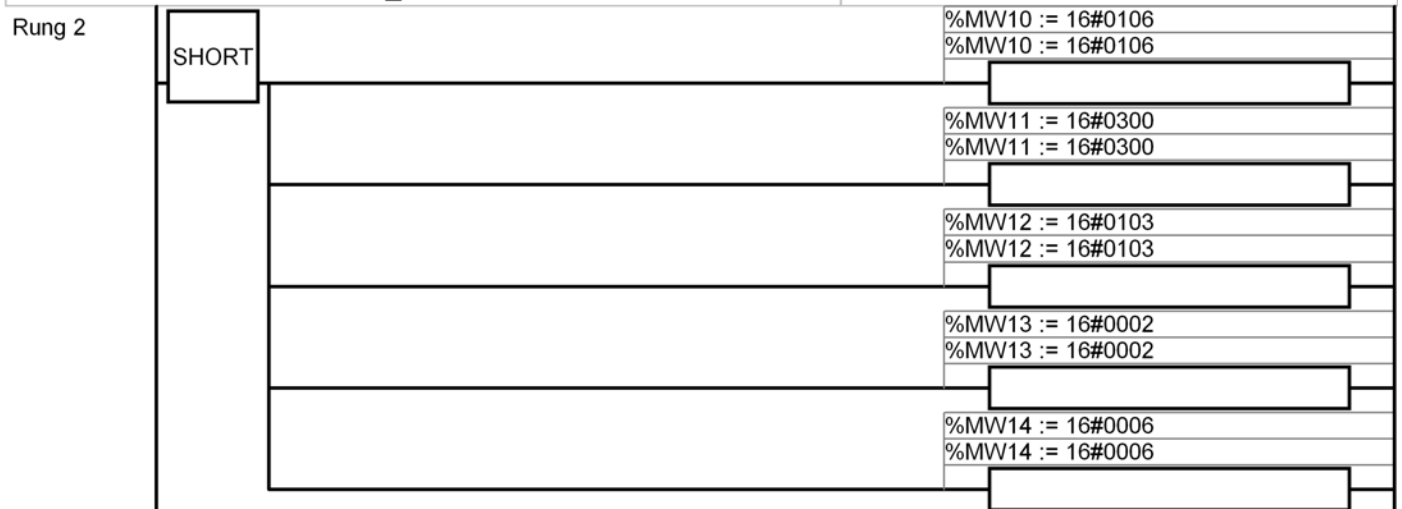




2 LD



READ N WORDS BARCODE_SLAVE-1



WRITE N WORDS BARCODE_SLAVE-1

Rung 4

SHORT

%MW30 := 16#0116
%MW30 := 16#0116%MW31 := 16#0007
%MW31 := 16#0007%MW32 := 16#0110
%MW32 := 16#0110%MW33 := 16#0016
%MW33 := 16#0016%MW34 := 16#0007
%MW34 := 16#0007%MW35 := 16#000E
%MW35 := 16#000E

WORD TO WRITE BARCODE_SLAVE-1

Rung 5

SHORT

%MW36 := START_DISPLAY
%MW36 := %MW156%MW37 := TARGET_PLT_MW26
%MW37 := %MW157%MW38 := TARGET_BS_MW29
%MW38 := %MW158%MW39 := %MW159
%MW39 := %MW159%MW40 := %MW160
%MW40 := %MW160%MW41 := %MW161
%MW41 := %MW161%MW42 := %MW162
%MW42 := %MW162

Rung 6

%SC0.1

EXCH3 %MW30:16
EXCH3 %MW30:16

READ N WORDS FESTO_SLAVE-2

Rung 7

SHORT

%MW50 := 16#0106
%MW50 := 16#0106%MW51 := 16#0300
%MW51 := 16#0300%MW52 := 16#0203
%MW52 := 16#0203%MW53 := 16#000A
%MW53 := 16#000A%MW54 := 16#0006
%MW54 := 16#0006

Rung 8

%SC0.2

EXCH3 %MW50:13
EXCH3 %MW50:13**WRITE N WORDS FESTO_SLAVE-2**

Rung 9

SHORT

%MW70 := 16#0110
%MW70 := 16#0110%MW71 := 16#0007
%MW71 := 16#0007%MW72 := 16#0210
%MW72 := 16#0210%MW73 := 16#0014
%MW73 := 16#0014%MW74 := 16#0004
%MW74 := 16#0004%MW75 := 16#0008
%MW75 := 16#0008**WORD TO WRITE FESTO_SLAVE-2**

Rung 10

SHORT

%MW76 := START_FESTO
%MW76 := %MW86%MW77 := %MW87
%MW77 := %MW87%MW78 := TARGET_TO_FESTO
%MW78 := %MW88%MW79 := TARGET_2_FESTO
%MW79 := %MW89

Rung 11

%SC0.3

EXCH3 %MW70:13

EXCH3 %MW70:13

3 LD

Rung 0

%SC0.4

%SC0

R

%M22

CU

CD

READ FROM SLAVE I

Rung 1

SHORT

%MW140 := %MW17

%MW140 := %MW17

%MW141 := %MW18

%MW141 := %MW18

%MW142 := %MW19

%MW142 := %MW19

%MW143 := %MW20

%MW143 := %MW20

%MW144 := AKTUAL_BESI_DISPLAY

%MW144 := %MW21

%MW145 := AKTUAL_PLASTIK_DISPLAY

%MW145 := %MW22

READ FROM SLAVE 2

Rung 2

SHORT

%MW146 := %MW57
%MW146 := %MW57%MW147 := %MW58
%MW147 := %MW58%MW148 := JLH_PRO_BS_FESTO
%MW148 := %MW59%MW149 := JLH_PRO_PLT_FESTO
%MW149 := %MW60%MW150 := %MW61
%MW150 := %MW61WW_IO_FESTO_2 := %MW62
%MW151 := %MW62

Rung 3

%M0

%M6

%M3

%M3

Rung 4

%M3

START_DISPLAY := 1
%MW156 := 1

Rung 5

%M8

%MW87 := 1
%MW87 := 1

Rung 6

STOP_FE
STO

%M16

%TM4

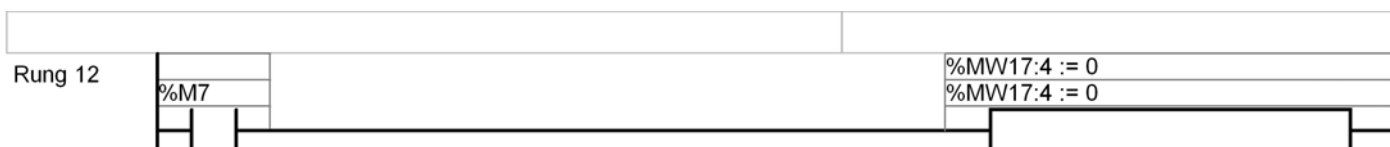
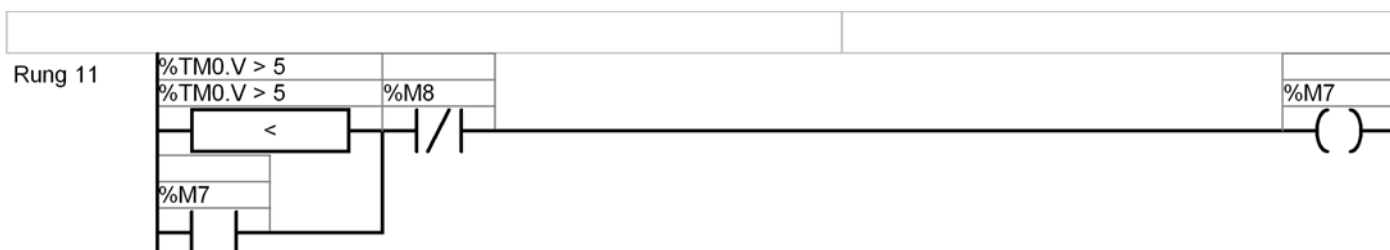
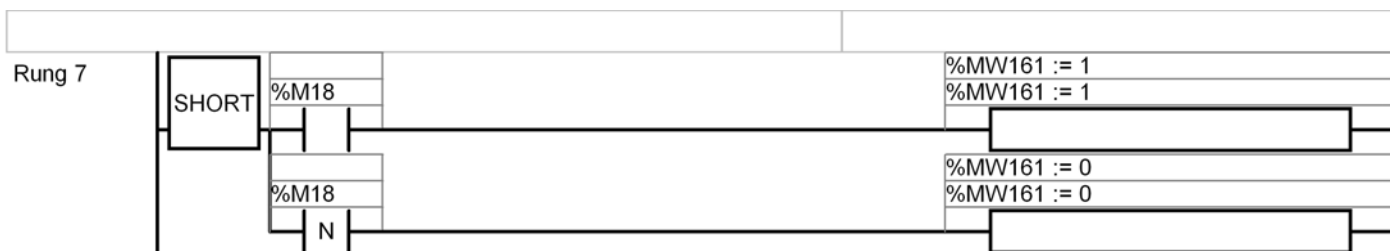
%M17

N

IN

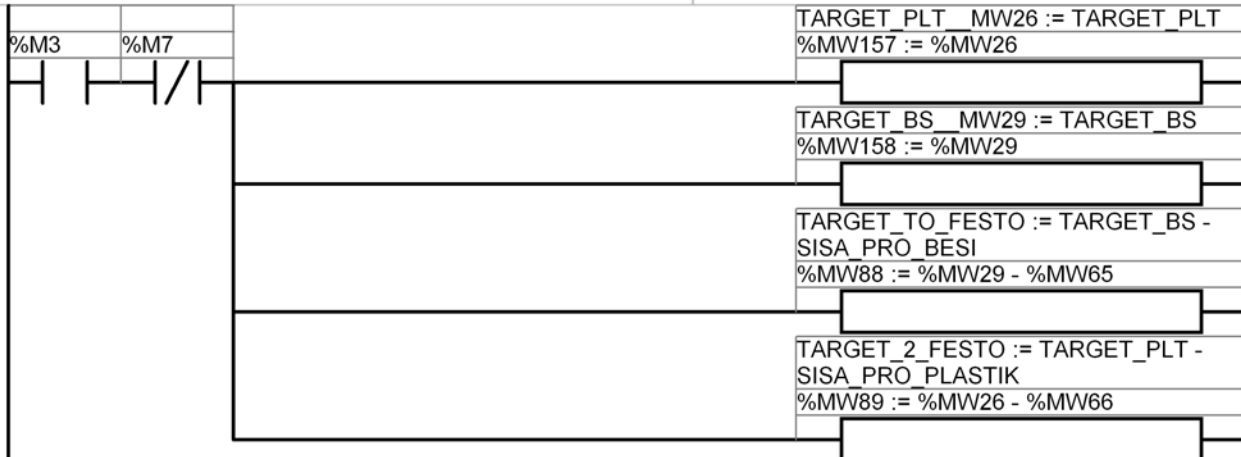
Q

TYPE TP
TB 100 ms
ADJ Y
%TM4.P
10

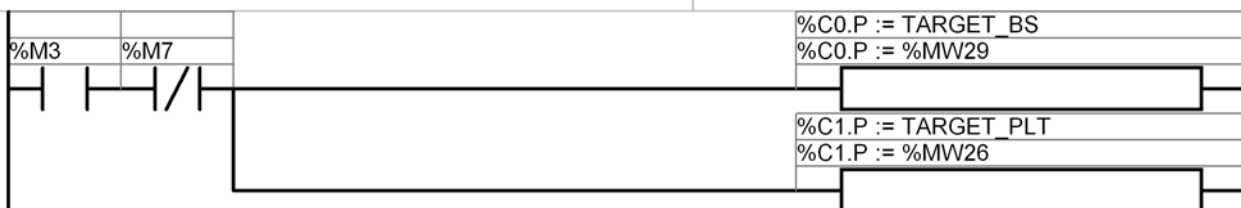


INITIAL SETPOINT

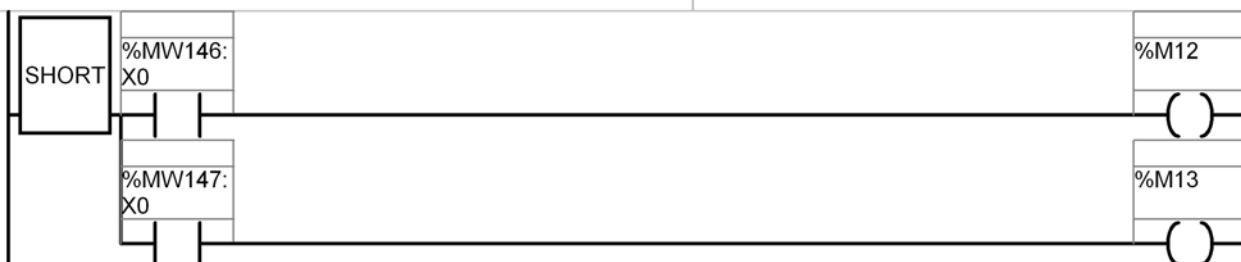
Rung 13



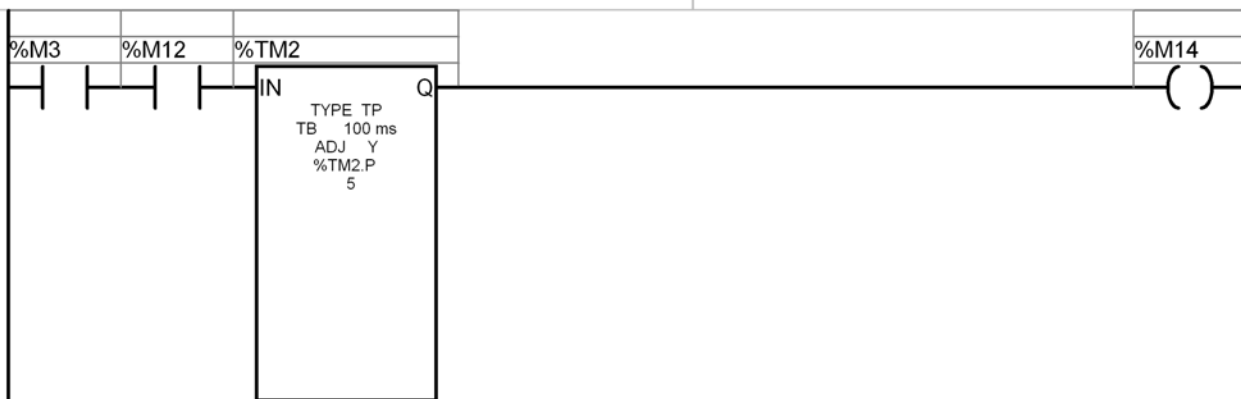
Rung 14



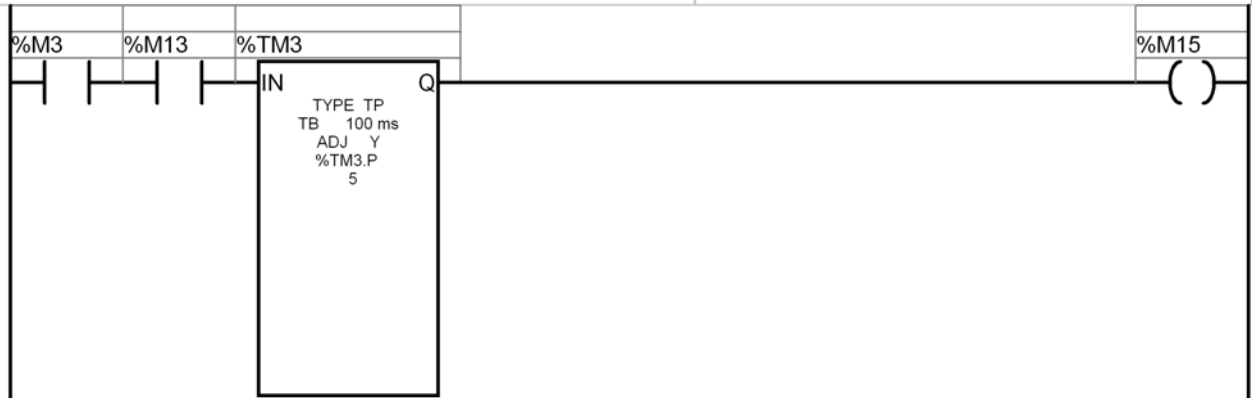
Rung 15



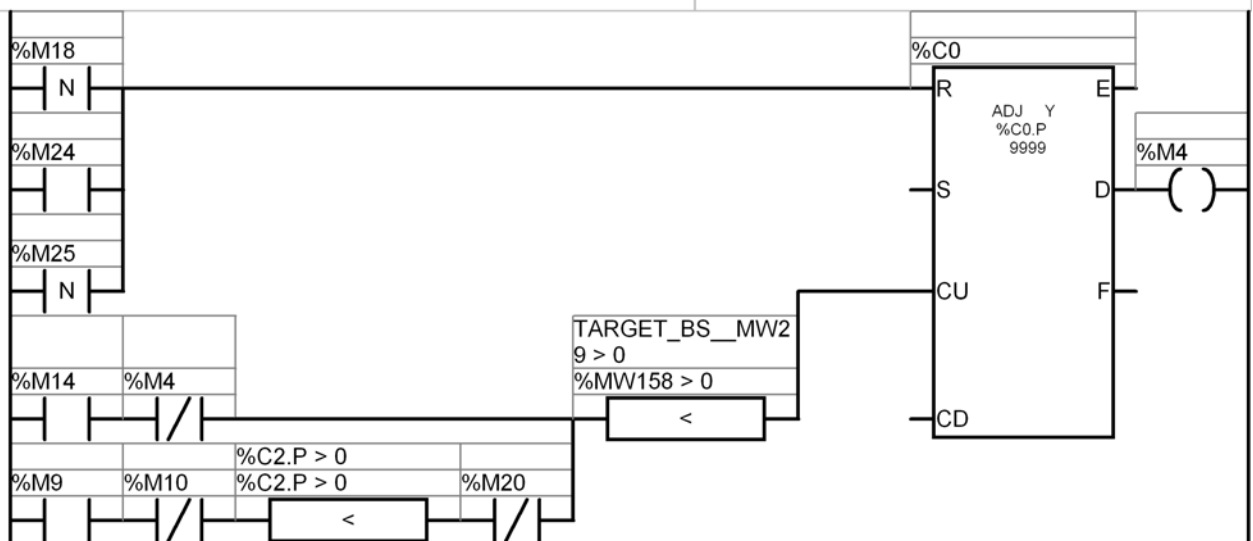
Rung 16



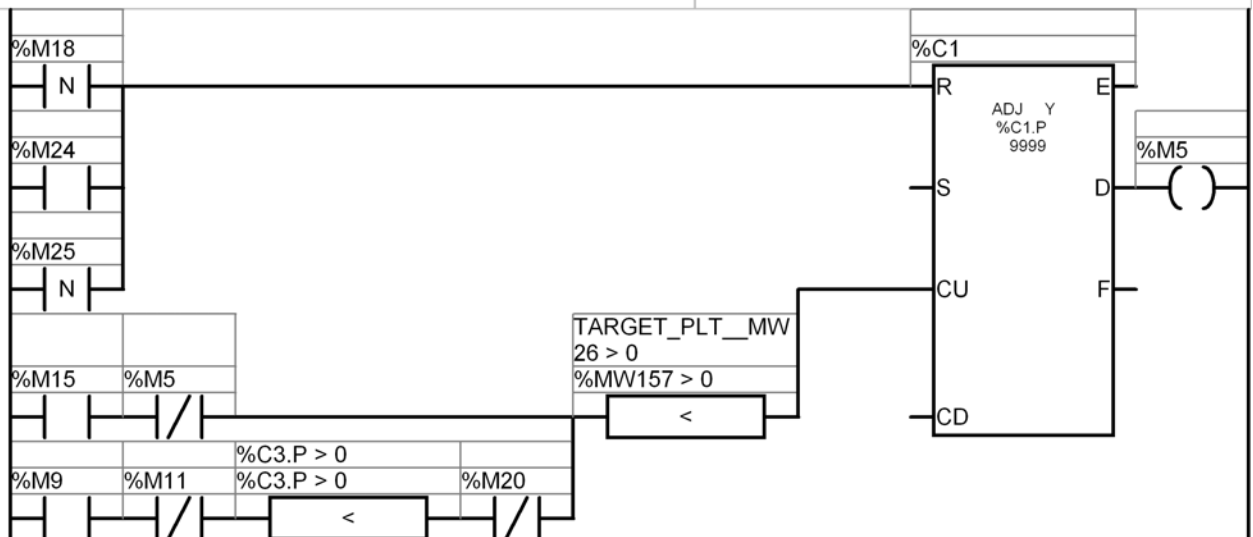
Rung 17



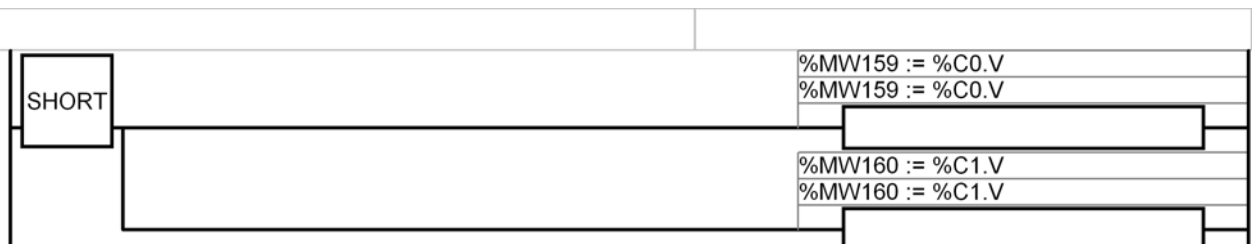
Rung 18

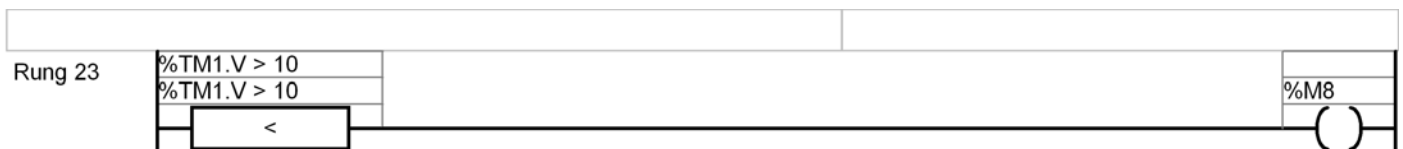
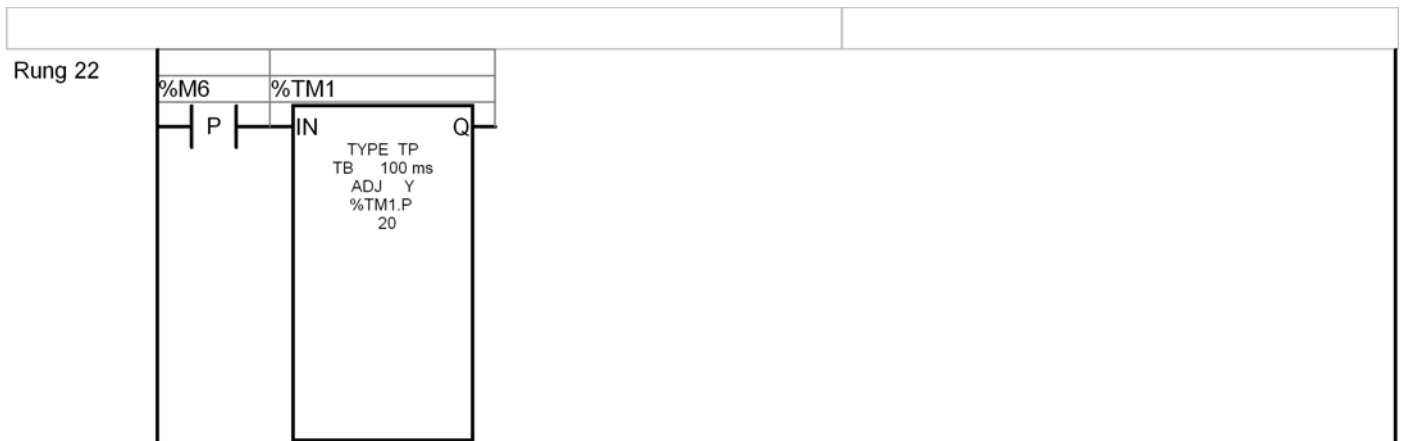
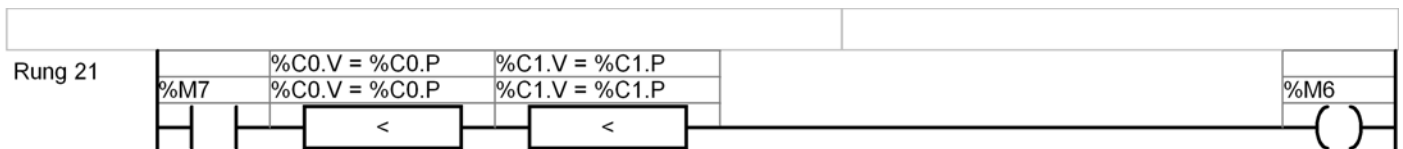


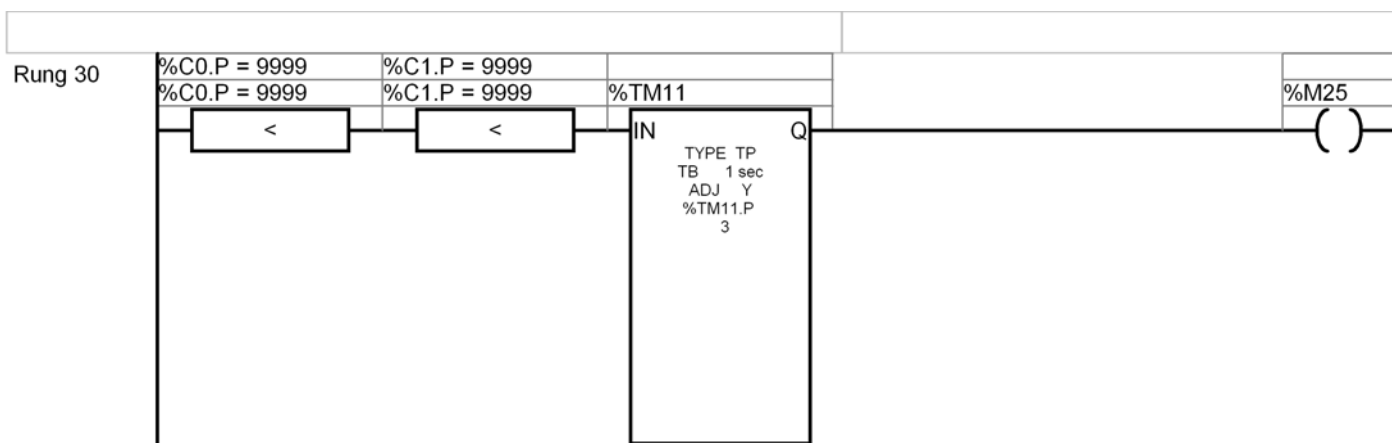
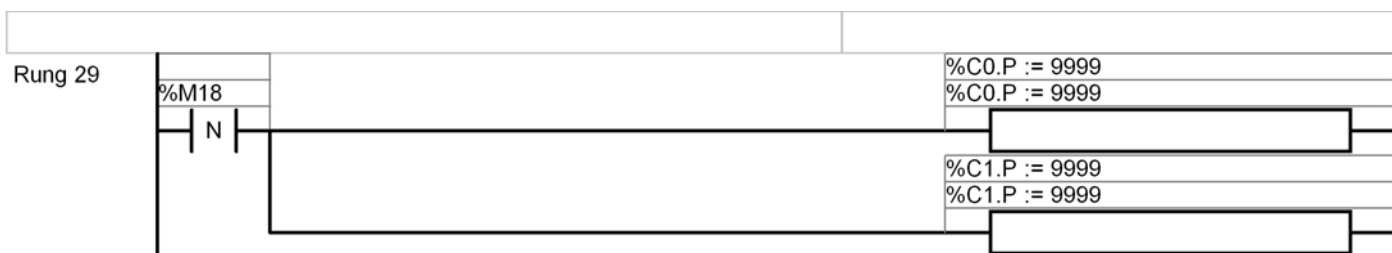
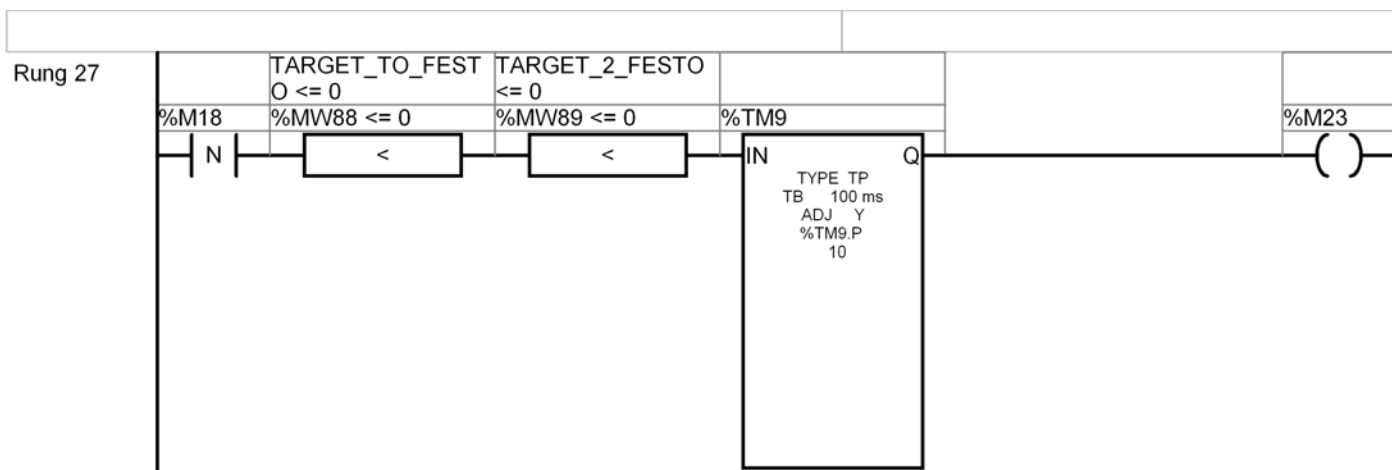
Rung 19



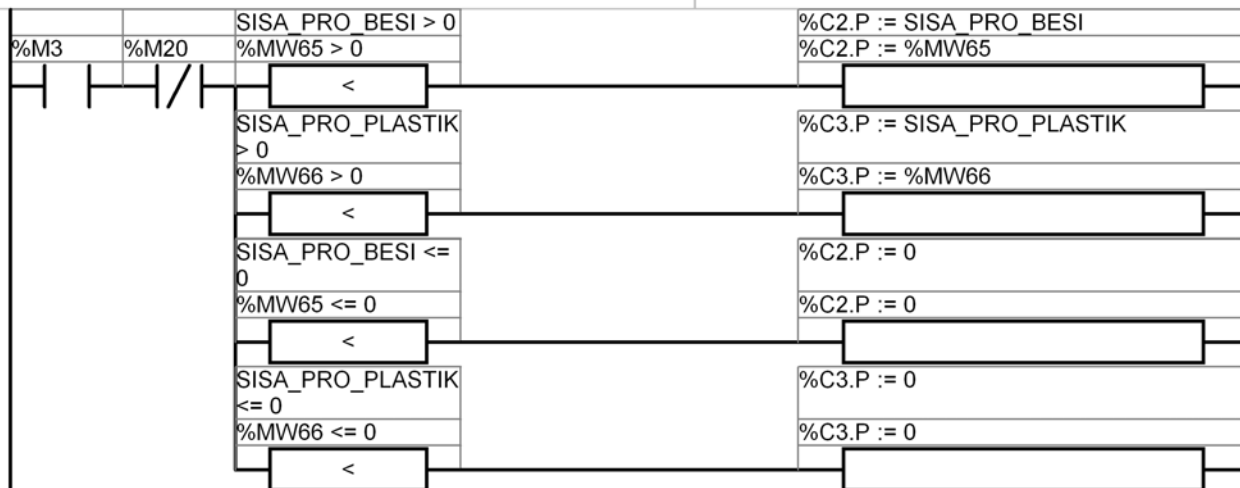
Rung 20



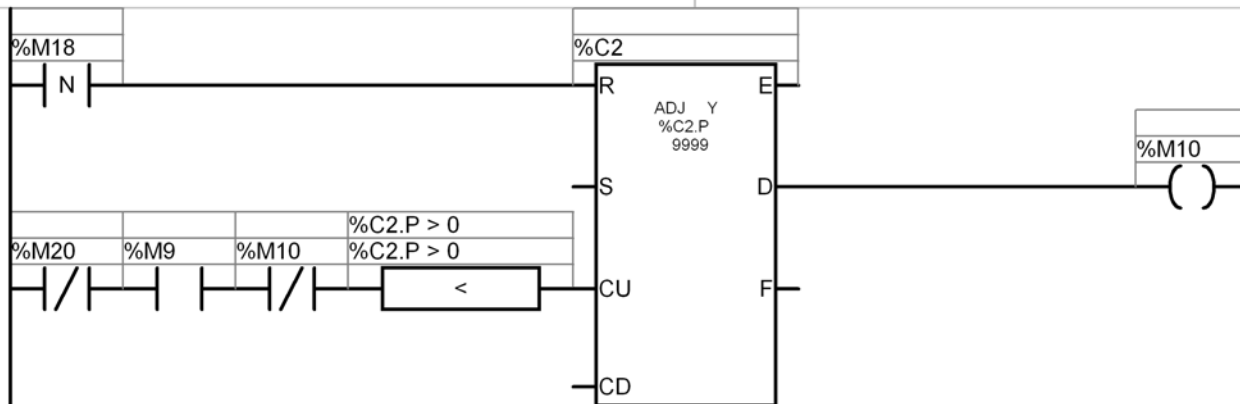




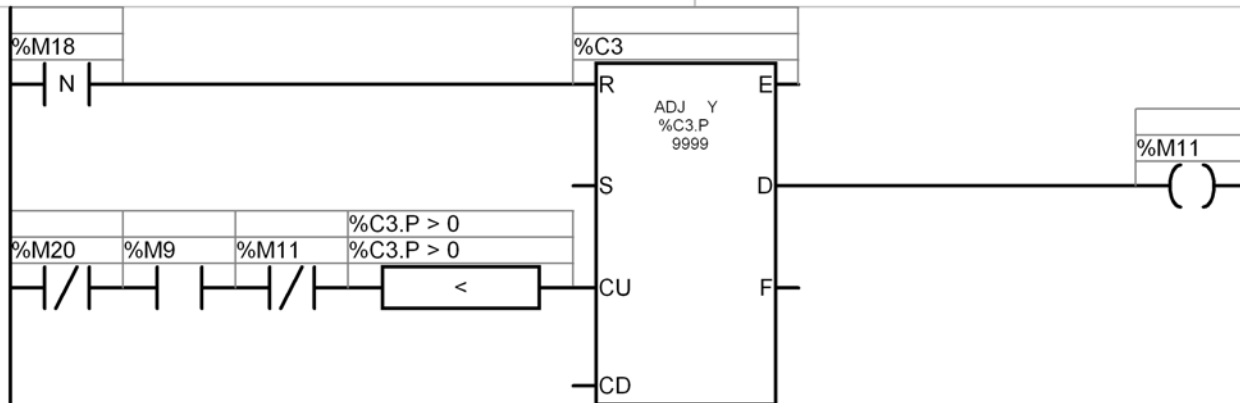
Rung 31



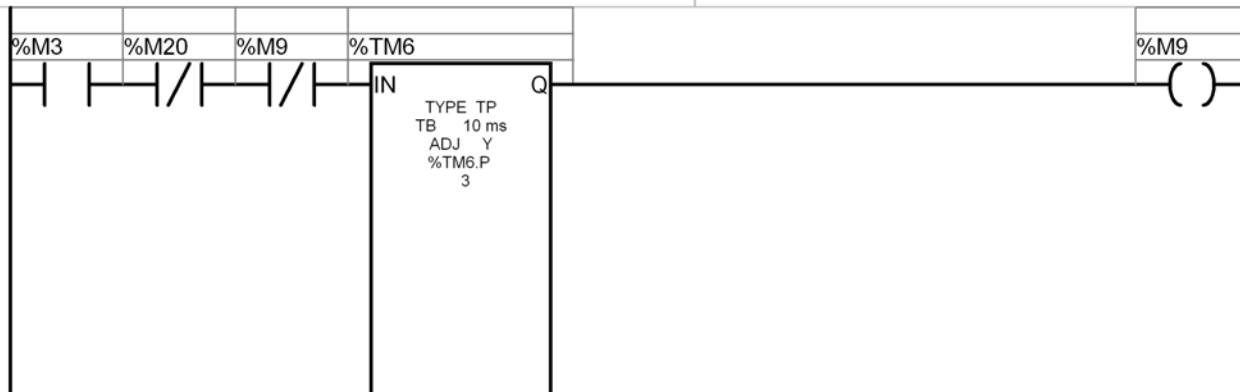
Rung 32

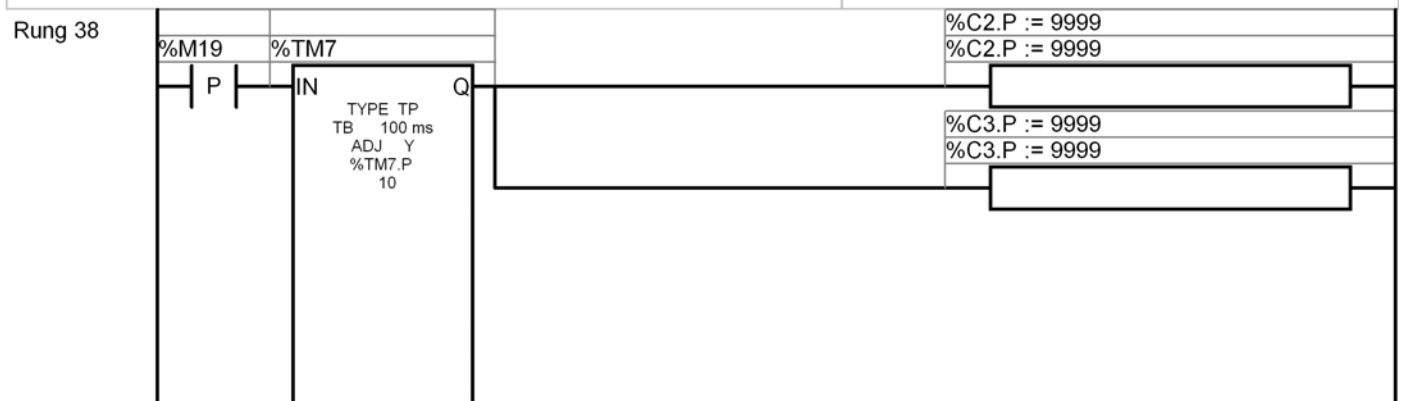
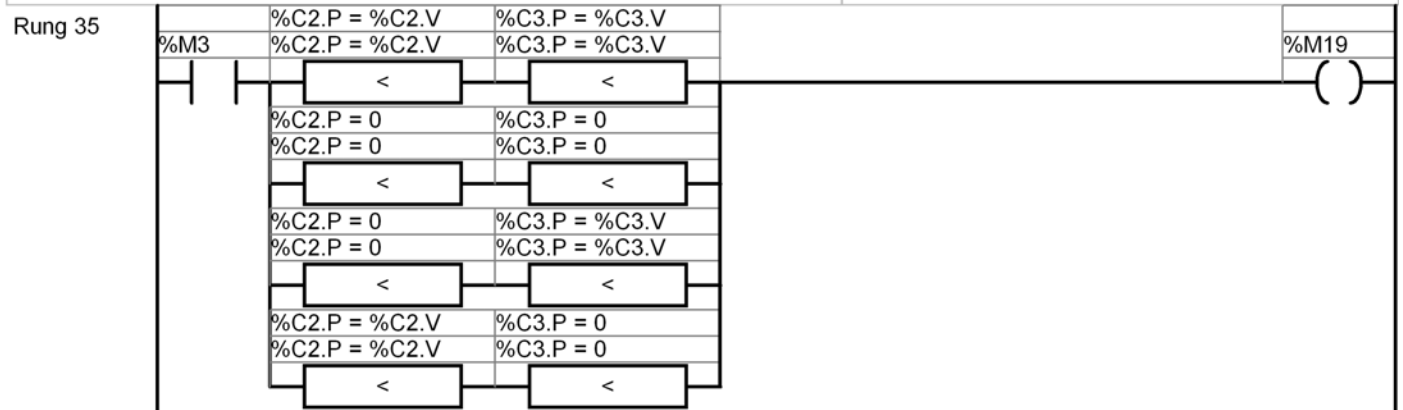


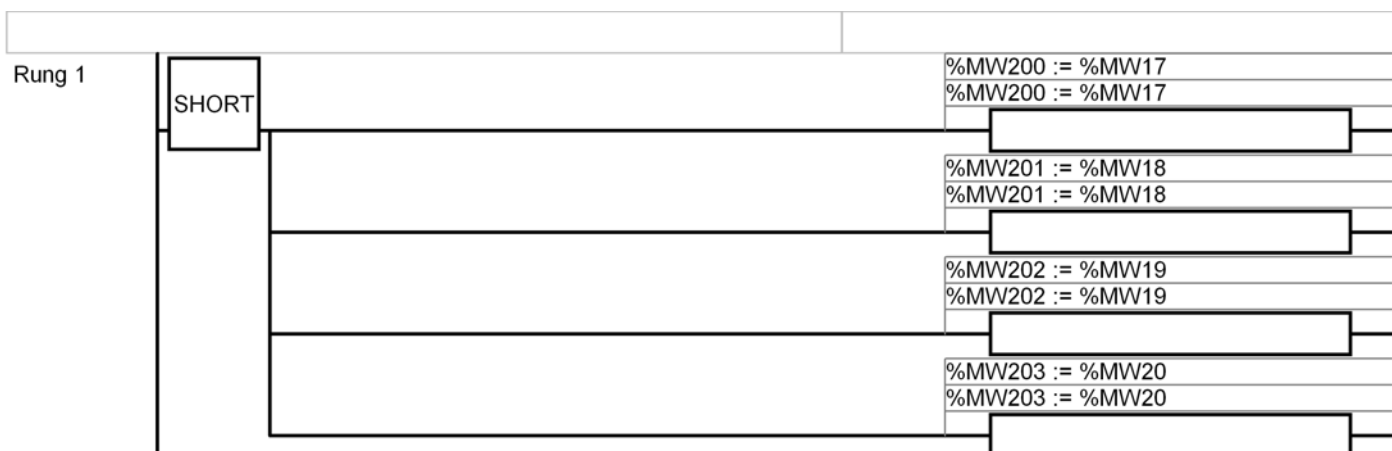
Rung 33



Rung 34







5 LD WONDERWARE For FESTO



INPUT FESTO

Rung 2

SHORT

%MW151:
X0PROX_ME
TAL
%M30%MW151:
X1PROX_DR
ILLING_M
ODULE

%M31

%MW151:
X2PROX_TE
STING_M
ODULE

%M32

%MW151:
X3LS_DRILL
ING_MOD
ULE_UP

%M33

%MW151:
X4LS_DRILL
ING_MOD
ULE_BOT
TOM

%M34

%MW151:
X5PROX_RO
TARY_TA
BLE

%M35

%MW151:
X6PROX_CL
AMPING_
MODULE

%M36



INPUT FESTO

Rung 3

SHORT

%MW151:
X7MOTOR_
DRILLING
%M37

Rung 4

%MW151: %TM12
X8MOTOR_
ROTARY_
TABLE
%M38

Rung 5

SHORT

%MW151: X9

%MW151: X10

%MW151: X11

%MW151: X12

DRILLING
MODULE
DOWN
%M39DRILLING
MODULE
UP
%M40CLAMPIN
G_MODU
LE
%M41TESTING
MODULE
%M42

Rung 6

%MW151: %TM13
X13SORTING
MODULE
%M43

TARGET FESTO

Rung 7

SHORT

WW_FESTO_T_1000 :=
TARGET_PLT_MW26 / 10
%MW152 := %MW157 / 10

WW_FESTO_T_100 :=
TARGET_PLT_MW26 REM 10
%MW153 := %MW157 REM 10

WW_FESTO_T_10 :=
TARGET_BS_MW29 / 10
%MW154 := %MW158 / 10

WW_FESTO_T_1 :=
TARGET_BS_MW29 REM 10
%MW155 := %MW158 REM 10

ACTUAL FESTO

Rung 8

SHORT

WW_FESTO_A_1000 :=
AKTUAL_PLASTIK_DISPLAY / 10
%MW163 := %MW22 / 10

WW_FESTO_A_100 :=
AKTUAL_PLASTIK_DISPLAY REM 10
%MW164 := %MW22 REM 10

WW_FESTO_A_10 :=
AKTUAL_BESI_DISPLAY / 10
%MW165 := %MW21 / 10

WW_FESTO_A_1 :=
AKTUAL_BESI_DISPLAY REM 10
%MW166 := %MW21 REM 10

6 LD TREND I/O FESTO

Rung 0

TESTING
MODULE

%M42

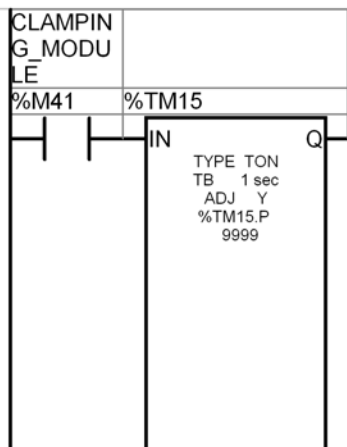
%TM14

IN

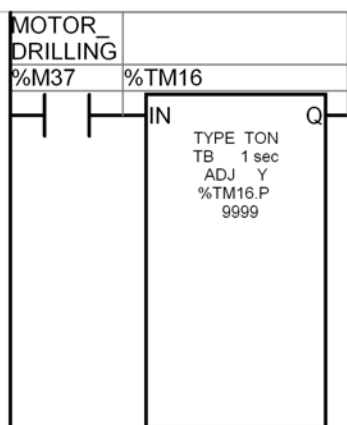
Q

TYPE TON
TB 1 sec
ADJ Y
%TM14.P
9999

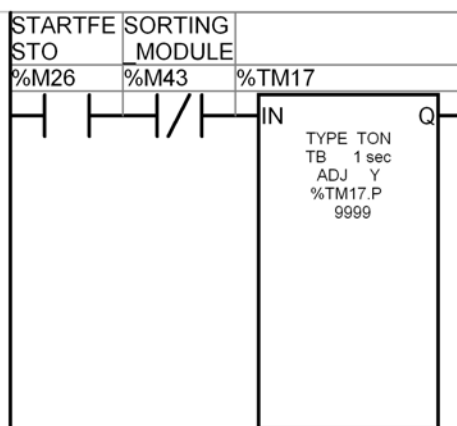
Rung 1



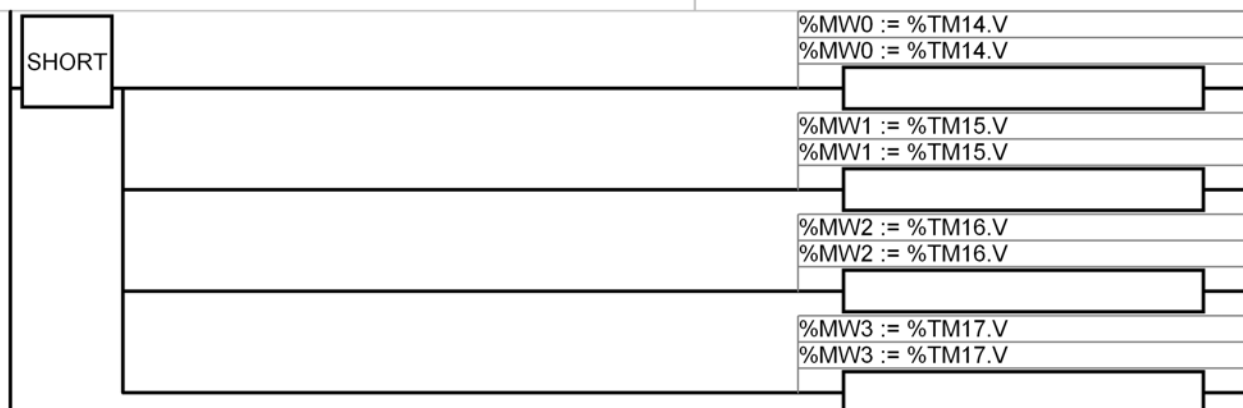
Rung 2



Rung 3



Rung 4



Symbols

Used	Address	Symbol	Comment
Yes	%MW21	AKTUAL_BESI_DISPLAY	
Yes	%MW22	AKTUAL_PLASTIK_DISPLAY	
Yes	%MW27	ALARM_SLAVE1	
Yes	%MW28	ALARM_SLAVE2	
Yes	%M41	CLAMPING_MODULE	
No	%M58	COMPRESSOR	
No	%M67	COMPRESSOR_IND	
No	%MW97	DP_TRANSMITTER_VALUE	
Yes	%M39	DRILLING_MODULE_DOWN	
Yes	%M40	DRILLING_MODULE_UP	
Yes	%MW59	JLH_PRO_BS_FESTO	
Yes	%MW60	JLH_PRO_PLT_FESTO	
Yes	%M34	LS_DRILLING_MODULE_BOTTOM	
Yes	%M33	LS_DRILLING_MODULE_UP	
No	%M46	MODE_1	
No	%M61	MODE_1_IND	
No	%M47	MODE_2	
No	%M62	MODE_2_IND	
No	%M48	MODE_3	
No	%M63	MODE_3_IND	
No	%M49	MODE_4	
No	%M64	MODE_4_IND	
Yes	%M37	MOTOR_DRILLING	
Yes	%M38	MOTOR_ROTARY_TABLE	
No	%M56	PNEUMATIC	
No	%M68	PNEUMATIC_IND	
No	%MW98	PNEUMATIC_VALUE	
Yes	%M36	PROX_CLAMPING_MODULE	
Yes	%M31	PROX_DRILLING_MODULE	
Yes	%M30	PROX_METAL	
Yes	%M35	PROX_ROTARY_TABLE	
Yes	%M32	PROX_TESTING_MODULE	
No	%M59	PUMP_1	
No	%M65	PUMP_1_IND	
No	%M57	PUMP_2	
No	%M66	PUMP_2_IND	
Yes	%M27	REPORT_HIS_DB	
Yes	%M2	RESET_BARCODE	
Yes	%MW65	SISA_PRO_BESI	
Yes	%MW66	SISA_PRO_PLASTIK	
Yes	%M43	SORTING_MODULE	
No	%MW99	SP_DP_TRANSMITTER	
No	%MW100	SP_PNEUMATIC	
Yes	%M26	STARTFESTO	
Yes	%MW156	START_DISPLAY	
Yes	%MW86	START_FESTO	
No	%M60	START_IND_PS	
No	%M44	START_PS	
Yes	%M16	STOP_FESTO	
No	%M45	STOP_PS	
Yes	%MW89	TARGET_2_FESTO	
Yes	%MW29	TARGET_BS	
Yes	%MW158	TARGET_BS__MW29	
Yes	%MW26	TARGET_PLT	
Yes	%MW157	TARGET_PLT__MW26	
Yes	%MW88	TARGET_TO_FESTO	
Yes	%M42	TESTING_MODULE	
Yes	%MW63	TOT_PRO_BESI	
Yes	%MW64	TOT_PRO_PLASTIK	
No	%M51	VALVE_1	

Used	Address	Symbol	Comment
No	%M69	VALVE_1_IND	
No	%M52	VALVE_2	
No	%M70	VALVE_2_IND	
No	%M53	VALVE_3	
No	%M71	VALVE_3_IND	
No	%M54	VALVE_4	
No	%M72	VALVE_4_IND	
No	%M55	VALVE_5	
No	%M73	VALVE_5_IND	
Yes	%MW166	WW_FESTO_A_1	
Yes	%MW165	WW_FESTO_A_10	
Yes	%MW164	WW_FESTO_A_100	
Yes	%MW163	WW_FESTO_A_1000	
Yes	%MW155	WW_FESTO_T_1	
Yes	%MW154	WW_FESTO_T_10	
Yes	%MW153	WW_FESTO_T_100	
Yes	%MW152	WW_FESTO_T_1000	
Yes	%MW151	WW_IO_FESTO_2	

LAMPIRAN B

Select a Bind List

Find: His

His PP

OK Cancel New Modify Delete

Bind List Configuration

Add Item Delete Item Modify Item Cancel OK

Bind List Name: His Save

Tagname.FieldName Column Name

db_int4 Kode_Produksi

Tagname FieldName Move Up Move Down

Tagname.FieldName	Column Name
db_int4	Kode_Produksi
db_int5	Target_Pro_Besi
db_int6	Target_Pro_Plastik
db_int8	Hasil_Pro_Plastik
db_int7	Hasil_Pro_Besi
db_int9	Sisa_Pro_Besi
db_int10	Sisa_Pro_Plastik
\$TimeString	Waktu_Pro_End
\$DateString	Tanggal_Produksi
TimeProd_Start	Waktu_Pro_Start

Bind List Configuration

Add Item Delete Item Modify Item Cancel OK

Bind List Name: PP Save

Tagname.FieldName Column Name

db_int1 Kode_Produksi

Tagname FieldName Move Up Move Down

Tagname.FieldName	Column Name
db_int1	Kode_Produksi
db_int2	Target_Produksi_Besi
db_int3	Target_Produksi_Plastik
db_msg1	Barcode
Tot_db	Nomor

Application Script:
 Last Modified Date/Time : Jumat Jan 25 03:48:20 2008

Script On Application Startup:

```
SQLConnect( ConnectionId, "TugasAkhir");
```

Script While application running, every 1 msec:

```
IF TESTBC > 0
    THEN
        cekdb = 1;
    ELSE
        cekdb = 0;
ENDIF;

    IF TESTBC1 > 0
        THEN
            cekdb1 = 1;
        ELSE
            cekdb1 = 0;
    ENDIF;

IF TESTBC2 > 0
    THEN
        cekdb2 = 1;
    ELSE
        cekdb2 = 0;
ENDIF;

    IF TESTBC3 > 0
        THEN
            cekdb3 = 1;
        ELSE
            cekdb3 = 0;
    ENDIF;

cekdb4 = cekdb OR cekdb1 OR cekdb2 OR cekdb3;

IF cekdb4 == 1
    THEN
        Show "SQLselectwindow";

        teststring = StringFromIntg( TESTBC, 16 );
        teststring1 = StringFromIntg( TESTBC1, 16 );
        teststring2 = StringFromIntg( TESTBC2, 16 );
        teststring3 = StringFromIntg( TESTBC3, 16 );

        teststring4 = StringLeft( teststring, 2 );
        teststring5 = StringRight( teststring, 2 );
        teststring6 = StringLeft( teststring1, 2 );
        teststring7 = StringRight( teststring1, 2 );
        teststring8 = StringLeft( teststring2, 2 );
        teststring9 = StringRight( teststring2, 2 );
        teststring10 = StringLeft( teststring3, 2 );
        teststring11 = StringRight( teststring3, 2 );

        teststring12 = StringLeft( teststring4, 1 );
        teststring13 = StringRight( teststring4, 1 );
        teststring14 = StringLeft( teststring5, 1 );
        teststring15 = StringRight( teststring5, 1 );
        teststring16 = StringLeft( teststring6, 1 );
        teststring17 = StringRight( teststring6, 1 );
        teststring18 = StringLeft( teststring7, 1 );
        teststring19 = StringRight( teststring7, 1 );
        teststring20 = StringLeft( teststring8, 1 );
        teststring21 = StringRight( teststring8, 1 );
        teststring22 = StringLeft( teststring9, 1 );
        teststring23 = StringRight( teststring9, 1 );
        teststring24 = StringLeft( teststring10, 1 );
```

```
teststring25 = StringRight( teststring10, 1 );  
teststring26 = StringLeft( teststring11, 1 );  
teststring27 = StringRight( teststring11, 1 );
```

```
IF teststring12 == "A"  
THEN teststring12 = "10";  
ELSE  
    IF teststring12 == "B"  
    THEN teststring12 = "11";  
    ELSE  
        IF teststring12 == "C"  
        THEN teststring12 = "12";  
        ELSE  
            IF teststring12 == "D"  
            THEN teststring12 = "13";  
            ELSE  
                IF teststring12 == "E"  
                THEN teststring12 = "14";  
                ELSE  
                    IF teststring12 == "F"  
                    THEN teststring12 = "15";  
                    ELSE  
                        teststring12 = teststring12;  
                    ENDIF;  
                ENDIF;  
            ENDIF;  
        ENDIF;  
    ENDIF;  
ENDIF;
```

```
IF teststring13 == "A"  
THEN teststring13 = "10";  
ELSE  
    IF teststring13 == "B"  
    THEN teststring13 = "11";  
    ELSE  
        IF teststring13 == "C"  
        THEN teststring13 = "12";  
        ELSE  
            IF teststring13 == "D"  
            THEN teststring13 = "13";  
            ELSE  
                IF teststring13 == "E"  
                THEN teststring13 = "14";  
                ELSE  
                    IF teststring13 == "F"  
                    THEN teststring13 = "15";  
                    ELSE  
                        teststring13 = teststring13;  
                    ENDIF;  
                ENDIF;  
            ENDIF;  
        ENDIF;  
    ENDIF;  
ENDIF;
```

```
IF teststring14 == "A"  
THEN teststring14= "10";  
ELSE  
    IF teststring14 == "B"  
    THEN teststring14 = "11";  
    ELSE  
        IF teststring14 == "C"  
        THEN teststring14 = "12";  
        ELSE  
            IF teststring14 == "D"  
            THEN teststring14 = "13";  
            ELSE  
                IF teststring14 == "E"  
                THEN teststring14 = "14";  
                ELSE  
                    teststring14 = teststring14;  
                ENDIF;  
            ENDIF;  
        ENDIF;  
    ENDIF;  
ENDIF;
```

```
        IF teststring14 == "F"
THEN teststring14 = "15";
ELSE
teststring14 = teststring14;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
```

```
IF teststring15== "A"
THEN teststring15 = "10";
ELSE
        IF teststring15 == "B"
THEN teststring15 = "11";
ELSE
        IF teststring15 == "C"
THEN teststring15 = "12";
ELSE
        IF teststring15 == "D"
THEN teststring15 = "13";
ELSE
        IF teststring15 == "E"
THEN teststring15 = "14";
ELSE
        IF teststring15 == "F"
THEN teststring15 = "15";
ELSE
teststring15 = teststring15;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
```

```
IF teststring16 == "A"
THEN teststring16 = "10";
ELSE
        IF teststring16 == "B"
THEN teststring16 = "11";
ELSE
        IF teststring16 == "C"
THEN teststring16 = "12";
ELSE
        IF teststring16 == "D"
THEN teststring16= "13";
ELSE
        IF teststring16 == "E"
THEN teststring16 = "14";
ELSE
        IF teststring16 == "F"
THEN teststring16 = "15";
ELSE
teststring16= teststring16;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
```

```
IF teststring17 == "A"
THEN teststring17 = "10";
ELSE
        IF teststring17== "B"
THEN teststring17 = "11";
ELSE
        IF teststring17 == "C"
THEN teststring17= "12";
```

```
ELSE
    IF teststring17 == "D"
    THEN teststring17 = "13";
ELSE
    IF teststring17== "E"
    THEN teststring17 = "14";
ELSE
    IF teststring17 == "F"
    THEN teststring17 = "15";
ELSE
    teststring17 = teststring17;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;

IF teststring18== "A"
THEN teststring18 = "10";
ELSE
    IF teststring18== "B"
    THEN teststring18 = "11";
ELSE
    IF teststring18 == "C"
    THEN teststring18 = "12";
ELSE
    IF teststring18 == "D"
    THEN teststring18 = "13";
ELSE
    IF teststring18 == "E"
    THEN teststring18 = "14";
ELSE
    IF teststring18 == "F"
    THEN teststring18 = "15";
ELSE
    teststring18 = teststring18;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;

IF teststring19 == "A"
THEN teststring19 = "10";
ELSE
    IF teststring19 == "B"
    THEN teststring19 = "11";
ELSE
    IF teststring19 == "C"
    THEN teststring19 = "12";
ELSE
    IF teststring19 == "D"
    THEN teststring19 = "13";
ELSE
    IF teststring19 == "E"
    THEN teststring19 = "14";
ELSE
    IF teststring19 == "F"
    THEN teststring19 = "15";
ELSE
    teststring19 = teststring19;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;

IF teststring20 == "A"
THEN teststring20 = "10";
```

```
ELSE
    IF teststring20 == "B"
    THEN teststring20 = "11";
ELSE
    IF teststring20 == "C"
    THEN teststring20 = "12";
ELSE
    IF teststring20 == "D"
    THEN teststring20 = "13";
ELSE
    IF teststring20 == "E"
    THEN teststring20 = "14";
ELSE
    IF teststring20 == "F"
    THEN teststring20 = "15";
ELSE
teststring20 = teststring20;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;

IF teststring21 == "A"
THEN teststring21 = "10";
ELSE
    IF teststring21 == "B"
    THEN teststring21 = "11";
ELSE
    IF teststring21 == "C"
    THEN teststring21 = "12";
ELSE
    IF teststring21 == "D"
    THEN teststring21 = "13";
ELSE
    IF teststring21 == "E"
    THEN teststring21 = "14";
ELSE
    IF teststring21 == "F"
    THEN teststring21 = "15";
ELSE
teststring21 = teststring21;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;

IF teststring22 == "A"
THEN teststring22 = "10";
ELSE
    IF teststring22 == "B"
    THEN teststring22 = "11";
ELSE
    IF teststring22 == "C"
    THEN teststring22 = "12";
ELSE
    IF teststring22 == "D"
    THEN teststring22 = "13";
ELSE
    IF teststring22 == "E"
    THEN teststring22 = "14";
ELSE
    IF teststring22 == "F"
    THEN teststring22 = "15";
ELSE
teststring22 = teststring22;
ENDIF;
ENDIF;
ENDIF;
```

```
ENDIF;
ENDIF;
ENDIF;

IF teststring23 == "A"
THEN teststring23 = "10";
ELSE
    IF teststring23 == "B"
    THEN teststring23 = "11";
    ELSE
        IF teststring23 == "C"
        THEN teststring23 = "12";
        ELSE
            IF teststring23 == "D"
            THEN teststring23 = "13";
            ELSE
                IF teststring23 == "E"
                THEN teststring23 = "14";
                ELSE
                    IF teststring23 == "F"
                    THEN teststring23= "15";
                    ELSE
                        teststring23 = teststring23;
                    ENDIF;
                ENDIF;
            ENDIF;
        ENDIF;
    ENDIF;
ENDIF;

IF teststring24 == "A"
THEN teststring24 = "10";
ELSE
    IF teststring24 == "B"
    THEN teststring24 = "11";
    ELSE
        IF teststring24 == "C"
        THEN teststring24 = "12";
        ELSE
            IF teststring24 == "D"
            THEN teststring24 = "13";
            ELSE
                IF teststring24 == "E"
                THEN teststring24 = "14";
                ELSE
                    IF teststring24 == "F"
                    THEN teststring24 = "15";
                    ELSE
                        teststring24 = teststring24;
                    ENDIF;
                ENDIF;
            ENDIF;
        ENDIF;
    ENDIF;
ENDIF;

IF teststring25 == "A"
THEN teststring25 = "10";
ELSE
    IF teststring25 == "B"
    THEN teststring25= "11";
    ELSE
        IF teststring25 == "C"
        THEN teststring25= "12";
        ELSE
            IF teststring25 == "D"
            THEN teststring25 = "13";
            ELSE
                IF teststring25 == "E"
                THEN teststring25 = "14";
                ELSE
                    IF teststring25 == "F"
```

```
THEN teststring25 = "15";
ELSE
teststring25 = teststring25;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;

IF teststring26 == "A"
THEN teststring26 = "10";
ELSE
    IF teststring26 == "B"
THEN teststring26 = "11";
ELSE
    IF teststring26 == "C"
THEN teststring26 = "12";
ELSE
    IF teststring26 == "D"
THEN teststring26 = "13";
ELSE
    IF teststring26 == "E"
THEN teststring26 = "14";
ELSE
    IF teststring26 == "F"
THEN teststring26 = "15";
ELSE
teststring26 = teststring26;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;

IF teststring27 == "A"
THEN teststring27 = "10";
ELSE
    IF teststring27 == "B"
THEN teststring27 = "11";
ELSE
    IF teststring27 == "C"
THEN teststring27 = "12";
ELSE
    IF teststring27 == "D"
THEN teststring27 = "13";
ELSE
    IF teststring27 == "E"
THEN teststring27 = "14";
ELSE
    IF teststring27 == "F"
THEN teststring27 = "15";
ELSE
teststring27 = teststring27;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;
ENDIF;

testint1 = StringToIntg( teststring12 );
testint2 = StringToIntg( teststring13 );
testint3 = StringToIntg( teststring14 );
testint4 = StringToIntg( teststring15 );
testint5 = StringToIntg( teststring16 );
testint6 = StringToIntg( teststring17 );
testint7 = StringToIntg( teststring18 );
testint8 = StringToIntg( teststring19 );
testint9 = StringToIntg( teststring20 );
testint10 = StringToIntg( teststring21 );
```

```

testint11 = StringToIntg( teststring22);
testint12 = StringToIntg( teststring23);
testint13 = StringToIntg( teststring24 );
testint14 = StringToIntg( teststring25 );
testint15 = StringToIntg( teststring26);
testint16 = StringToIntg( teststring27);

testint17 = (testint1 * 16) + testint2;
testint18 = (testint3 * 16) + testint4;
testint19 = (testint5 * 16) + testint6;
testint20 = (testint7 * 16) + testint8;
testint21 = (testint9 * 16) + testint10;
testint22 = (testint11 * 16) + testint12;
testint23 = (testint13 * 16) + testint14;
testint24 = (testint15 * 16) + testint16;

MessageTag = StringChar( testint17 ) + StringChar( testint18) + StringChar(
testint19 ) + StringChar( testint20 ) + StringChar( testint21 ) + StringChar(
testint22 ) + StringChar( testint23 ) + StringChar( testint24 );

testint25 = StringCompare( db_msg1, MessageTag);
testdisc = testint25 ;

IF testdisc == 0
    THEN
        testdisc1 = 1;
    ELSE
        testdisc1 = 0;
    ENDIF;

IF timer < 3
    THEN
        IF testdisc1 == 1
            THEN
                db_int11 = db_int1;
                db_int12 = db_int2;
                db_int13 = db_int3;
            ELSE
                db_int11 = 0;
                db_int12 = 0;
                db_int13 = 0;
                SQLNext( ConnectionId );
            ENDIF;
        ENDIF;

TimeProd Start = $TimeString;
db_int4 = db_int1;
db_int5 = db_int2;
db_int6 = db_int3;

ELSE
    IF timer == 3
        THEN
            IF testdisc1 == 1
                THEN
                    BCvalid = 1;
                ELSE
                    BCvalid = 0;
                ENDIF;
            ENDIF;
        ENDIF;

    ELSE
        Hide "SQLselectWindow";
        BCvalid = 0;
        timer = 0;
        testdisc1 = 0;
    ENDIF;

db_int4 = db_int1;
db_int5 = db_int2;
db_int6 = db_int3;

```

```
db int7 = Tot Pro Besi;  
db int8 = Tot Pro Plastik;  
db int9 = Over Production Besi;  
db_int10 = Over_Production_Plastic;  
  
alarm op besi = Tot Pro Besi - TargetBesi ;  
alarm_op_plastik = Tot_Pro_Plastik - TargetPlastik;
```

History Production Process

Nomor	Tanggal_Produksi	Target_Pro_ Besi	Target_Pro_ Plastik	Hasil_Pro_ Besi	Hasil_Pro_ _Plastik	Sisa_Pro_ _Besi	Sisa_Pro_ Plastik	Kode_ Produksi	Waktu_Pro_ Start	Waktu_Pro_ End
19	12/18/2007	2	5	3	5	1	0	250207	1:20:48	1:21:46
20	12/18/2007	2	0	2	0	0	0	2392	4:40:14	4:40:47
21	12/18/2007	5	0	5	0	0	0	3826	5:03:23	5:04:22
22	12/18/2007	10	0	10	0	0	0	5057	5:04:45	5:06:15
23	12/18/2007	20	0	20	0	0	0	12722	5:08:37	5:11:15
24	12/18/2007	0	2	0	2	0	0	7733	5:12:21	5:12:50
25	12/18/2007	0	5	0	5	0	0	8351	5:14:09	5:14:53
26	12/18/2007	0	10	0	10	0	0	9301	5:15:21	5:16:30
27	12/18/2007	0	20	0	20	0	0	14076	5:20:22	5:22:28
28	12/18/2007	5	5	5	5	0	0	10853	5:25:16	5:26:33
29	12/18/2007	10	10	10	10	0	0	12008	5:27:22	5:29:30
30	12/18/2007	2	2	2	2	0	0	9985	5:30:24	5:31:06
31	12/19/2007	3	2	3	2	0	0	15099	20:59:21	21:00:09
32	12/19/2007	10	5	10	5	0	0	18407	21:07:06	21:09:00
33	12/19/2007	10	15	10	15	0	0	18368	21:09:53	21:12:36
34	12/19/2007	2	2	2	3	0	1	9985	21:16:03	21:16:53
35	12/19/2007	2	2	2	3	0	1	9985	21:20:53	21:21:29
36	12/21/2007	5	5	5	5	0	0	10853	20:49:04	20:50:17
37	12/21/2007	5	5	5	7	0	2	10853	20:50:48	20:52:16
38	12/21/2007	5	5	5	5	0	0	10853	20:58:47	21:00:08
39	12/21/2007	5	5	7	5	2	0	10853	21:01:15	21:02:43
40	12/21/2007	10	10	10	10	0	0	12008	21:03:44	21:05:51
41	12/21/2007	10	5	10	6	0	1	18407	21:07:19	21:09:19
42	12/21/2007	10	10	10	10	0	0	12008	21:11:20	21:13:21
43	12/21/2007	10	10	15	10	5	0	12008	21:14:01	21:16:51

History Production Process

44	12/21/2007	5	0	5	0	0	0	3826	21:19:04	21:19:13
45	12/21/2007	5	5	8	5	3	0	10853	21:24:03	21:25:42
46	12/21/2007	10	5	10	5	0	0	18407	21:26:34	21:28:01
47	12/21/2007	2	2	7	2	5	0	9985	21:33:29	21:34:47
48	12/21/2007	5	5	5	5	0	0	10853	21:36:28	21:37:11
49	12/21/2007	2	0	2	3	0	3	2392	21:44:14	21:45:02
50	12/21/2007	0	5	2	5	2	0	8351	21:46:02	21:46:54
51	12/21/2007	5	5	5	8	0	3	10853	21:47:36	21:49:04
52	12/21/2007	0	5	0	5	0	0	8351	21:50:09	21:50:37
53	12/21/2007	1	0	1	2	0	2	1830	21:51:22	21:51:57
54	12/21/2007	0	10	0	10	0	0	9301	21:52:24	21:53:22
55	12/21/2007	1	0	1	2	0	2	1830	21:55:15	21:55:51
56	12/21/2007	0	10	0	10	0	0	9301	21:56:04	21:57:06
57	12/21/2007	2	0	2	3	0	3	2392	21:58:56	21:59:44
58	12/21/2007	0	5	0	5	0	0	8351	22:01:51	22:02:20
59	12/21/2007	0	1	2	1	2	0	6270	22:03:07	22:03:45
60	12/21/2007	0	5	2	5	2	0	8351	22:04:31	22:05:14
61	12/21/2007	0	10	2	10	2	0	9301	22:05:38	22:06:45
62	12/21/2007	0	1	3	1	3	0	6270	22:12:44	22:13:27
63	12/21/2007	0	5	3	5	3	0	8351	22:14:32	22:15:16
64	12/21/2007	0	10	3	10	3	0	9301	22:15:32	22:16:41
65	12/21/2007	5	0	5	0	0	0	3826	22:17:24	22:17:58
66	12/21/2007	0	1	4	1	4	0	6270	22:18:46	22:19:37
67	12/21/2007	5	0	5	0	0	0	3826	22:20:09	22:20:37
68	12/21/2007	0	1	3	1	3	0	6270	22:21:13	22:21:57
69	12/21/2007	0	1	3	1	3	0	6270	22:26:43	22:27:05
70	12/21/2007	10	0	10	0	0	0	5057	22:37:35	22:38:43
71	12/21/2007	0	1	4	1	4	0	6270	22:38:51	22:39:42

History Production Process

72	12/21/2007	10	0	10	0	0	0	5057	22:41:16	22:42:17
73	12/21/2007	1	0	1	2	0	2	1830	22:44:36	22:45:12
74	12/21/2007	5	0	5	2	0	2	3826	22:45:32	22:46:26
75	12/21/2007	10	0	10	2	0	2	5057	22:47:51	22:49:20
76	12/21/2007	1	0	1	4	0	4	1830	22:51:47	22:52:24
77	12/21/2007	5	0	5	4	0	4	3826	22:57:06	22:58:04
78	12/21/2007	10	0	10	4	0	4	5057	22:59:01	23:00:30
79	12/21/2007	0	5	1	5	1	0	8351	23:01:40	23:02:11
80	12/21/2007	0	2	2	2	2	0	7733	23:02:49	23:03:24
81	12/21/2007	0	5	5	5	5	0	8351	23:03:49	23:04:51
82	12/21/2007	0	10	6	10	6	0	9301	23:11:16	23:12:32
83	12/21/2007	10	0	10	0	0	0	5057	23:13:50	23:14:37
84	12/21/2007	1	0	1	2	0	2	1830	23:14:56	23:15:32
85	12/21/2007	5	0	5	4	0	4	3826	23:16:16	23:17:21
86	12/21/2007	10	0	10	5	0	5	5057	23:17:53	23:19:39
87	12/21/2007	1	0	1	5	0	5	1830	23:25:38	23:26:04
88	12/21/2007	1	0	1	5	0	5	1830	23:40:51	23:41:21
89	12/21/2007	1	0	1	5	0	5	1830	23:42:01	23:42:32
90	12/21/2007	0	5	1	5	0	0	8351	23:42:54	23:43:03
91	12/21/2007	1	0	1	0	0	0	1830	23:43:13	23:43:43
92	1/3/2008	1	0	1	0	0	0	1830	11:28:05	11:28:39
93	1/3/2008	1	0	1	0	0	0	1830	11:34:39	11:35:10
94	1/3/2008	1	0	1	0	0	0	1830	11:35:35	11:36:01
95	1/3/2008	1	0	1	0	0	0	1830	11:43:35	11:44:02
96	1/3/2008	1	0	1	0	0	0	1830	11:44:15	11:44:42
97	1/3/2008	0	1	0	1	0	0	6270	11:44:59	11:45:21
98	1/3/2008	0	1	0	1	0	0	6270	11:45:36	11:45:59
99	1/3/2008	0	1	0	1	0	0	6270	11:46:09	11:46:32

History Production Process

100	1/3/2008	0	1	0	1	0	0	6270	11:49:52	11:50:14
101	1/3/2008	0	1	0	1	0	0	6270	11:50:25	11:50:47
102	1/3/2008	2	0	2	0	0	0	2392	11:51:18	11:51:53
103	1/3/2008	2	0	2	0	0	0	2392	11:56:17	11:56:50
104	1/3/2008	2	0	2	0	0	0	2392	12:06:11	12:06:44
105	1/3/2008	2	0	2	0	0	0	2392	12:07:03	12:07:37
106	1/3/2008	2	0	2	0	0	0	2392	12:17:30	12:18:04
107	1/3/2008	0	2	0	2	0	0	7733	13:04:03	13:04:31
108	1/3/2008	0	2	0	2	0	0	7733	13:07:37	13:08:06
109	1/3/2008	0	2	0	2	0	0	7733	13:08:20	13:08:52
110	1/3/2008	0	2	0	2	0	0	7733	13:09:04	13:09:33
111	1/3/2008	0	2	0	2	0	0	7733	13:11:03	13:11:31
112	1/3/2008	0	2	0	2	0	0	7733	13:11:41	13:12:10
113	1/3/2008	0	2	0	2	0	0	7733	13:21:11	13:21:39
114	1/3/2008	0	2	0	2	0	0	7733	13:22:07	13:22:38
115	1/3/2008	0	2	0	2	0	0	7733	13:23:07	13:23:37
116	1/3/2008	0	2	0	2	0	0	7733	13:30:37	13:31:06
117	1/3/2008	2	2	2	2	0	0	9985	13:35:13	13:35:56
118	1/3/2008	2	2	2	2	0	0	9985	13:38:04	13:38:48
119	1/3/2008	2	2	2	2	0	0	9985	13:39:33	13:40:17
120	1/3/2008	2	2	2	2	0	0	9985	13:40:36	13:41:19
121	1/3/2008	2	2	2	2	0	0	9985	13:41:37	13:42:22
122	1/3/2008	5	5	5	5	0	0	10853	13:45:38	13:46:57
123	1/3/2008	5	5	5	5	0	0	10853	13:48:02	13:49:21
124	1/3/2008	5	5	5	5	0	0	10853	13:50:15	13:51:34
125	1/3/2008	5	5	5	5	0	0	10853	13:51:46	13:53:05
126	1/3/2008	5	5	5	5	0	0	10853	13:53:24	13:54:43
127	1/3/2008	5	5	5	5	0	0	10853	13:54:47	13:56:07

History Production Process

128	1/3/2008	5	5	5	5	0	0	10853	13:56:18	13:57:37
129	1/3/2008	10	10	10	10	0	0	12008	14:07:44	14:10:03
130	1/3/2008	10	10	10	10	0	0	12008	14:10:13	14:12:32
131	1/3/2008	10	10	10	10	0	0	12008	14:14:40	14:17:00
132	1/3/2008	10	10	10	10	0	0	12008	14:17:26	14:19:45
133	1/3/2008	10	10	10	11	0	1	12008	14:21:22	14:23:47
134	1/3/2008	10	10	10	10	0	0	12008	14:24:10	14:26:25
135	1/3/2008	10	10	10	10	0	0	12008	14:26:59	14:29:18
136	1/3/2008	2	2	2	2	0	0	9985	14:29:40	14:30:24
137	1/3/2008	2	2	2	2	0	0	9985	14:30:33	14:31:17
138	1/3/2008	2	2	2	2	0	0	9985	14:31:25	14:32:08
139	1/3/2008	2	2	2	2	0	0	9985	14:32:15	14:32:58
140	1/3/2008	2	2	2	2	0	0	9985	14:33:15	14:33:59
141	1/3/2008	2	2	2	2	0	0	9985	14:34:05	14:34:48
142	1/3/2008	5	5	5	5	0	0	10853	14:35:07	14:36:27
143	1/3/2008	5	5	5	5	0	0	10853	14:37:29	14:38:49
144	1/3/2008	5	5	5	5	0	0	10853	14:42:27	14:43:47
145	1/3/2008	5	5	5	5	0	0	10853	14:43:59	14:45:19
146	1/3/2008	5	5	5	5	0	0	10853	14:45:22	14:46:42
147	1/3/2008	10	10	10	10	0	0	12008	14:47:04	14:49:24
148	1/3/2008	10	10	10	10	0	0	12008	14:49:28	14:51:49
149	1/3/2008	10	10	10	10	0	0	12008	14:51:54	14:54:13
150	1/3/2008	10	10	10	10	0	0	12008	14:54:24	14:56:44
151	1/3/2008	10	10	10	10	0	0	12008	14:56:47	14:59:07
152	1/3/2008	5	5	7	5	2	0	10853	15:01:27	15:03:00
153	1/3/2008	5	5	5	5	0	0	10853	15:04:01	15:05:06
154	1/3/2008	5	5	7	5	2	0	10853	15:05:33	15:07:05
155	1/3/2008	5	5	5	5	0	0	10853	15:08:37	15:09:42

History Production Process

156	1/3/2008	5	5	8	5	3	0	10853	15:10:54	15:12:33
157	1/3/2008	5	0	5	0	0	0	3826	15:13:08	15:13:42
158	1/3/2008	5	5	7	5	2	0	10853	15:13:46	15:15:21
159	1/3/2008	2	0	9	5	0	0	2392	15:15:46	15:15:55
160	1/3/2008	1	0	1	0	0	0	1830	15:16:06	15:16:18
161	1/3/2008	5	5	7	5	2	0	10853	15:16:26	15:17:58
162	1/3/2008	5	5	5	5	0	0	10853	15:18:07	15:19:12
163	1/3/2008	5	5	7	5	2	0	10853	15:20:59	15:22:31
164	1/3/2008	5	5	5	5	0	0	10853	15:22:36	15:23:41
165	1/3/2008	5	5	7	5	2	0	10853	15:24:03	15:25:35
166	1/3/2008	5	5	5	5	0	0	10853	15:25:39	15:26:44
167	1/3/2008	5	5	5	7	0	2	10853	15:34:28	15:35:57
168	1/3/2008	5	5	5	5	0	0	10853	15:36:23	15:37:33
169	1/3/2008	5	5	5	7	0	2	10853	15:37:39	15:39:09
170	1/3/2008	5	5	5	5	0	0	10853	15:39:14	15:40:24
171	1/3/2008	5	5	5	8	0	3	10853	15:40:33	15:42:16
172	1/3/2008	0	5	0	5	0	0	8351	15:42:35	15:43:04
173	1/3/2008	5	5	5	7	0	2	10853	15:43:09	15:44:38
174	1/3/2008	5	5	5	5	0	0	10853	15:44:52	15:46:02
175	1/3/2008	5	5	5	7	0	2	10853	15:46:09	15:47:39
176	1/3/2008	5	5	5	9	0	4	10853	15:47:42	15:49:12
177	1/3/2008	0	5	0	5	0	0	8351	15:49:32	15:49:54
178	1/3/2008	5	5	5	8	0	3	10853	15:50:08	15:51:41
179	1/3/2008	0	5	0	5	0	0	8351	15:51:52	15:52:18
180	1/3/2008	5	5	5	7	0	2	10853	15:52:23	15:53:52
181	1/3/2008	5	5	5	7	0	2	10853	15:55:15	15:56:45
182	1/3/2008	5	5	5	5	0	0	10853	15:56:48	15:57:58
183	1/3/2008	5	5	5	5	0	0	10853	15:58:12	15:59:22

History Production Process

184	1/3/2008	10	10	12	10	2	0	12008	16:01:05	16:03:30
185	1/3/2008	10	10	12	10	2	0	12008	16:03:42	16:06:01
186	1/3/2008	10	10	12	10	2	0	12008	16:09:01	16:11:20
187	1/3/2008	10	10	12	10	2	0	12008	16:11:23	16:13:43
188	1/3/2008	10	10	12	10	2	0	12008	16:13:53	16:16:12
189	1/3/2008	10	10	10	12	0	2	12008	16:15:31	16:17:47
190	1/3/2008	10	10	10	12	0	2	12008	16:18:25	16:20:44
191	1/3/2008	10	10	10	12	0	2	12008	16:20:59	16:23:20
192	1/3/2008	10	10	10	12	0	2	12008	16:23:25	16:25:44
193	1/3/2008	10	10	10	12	0	2	12008	16:25:53	16:28:12
194	1/3/2008	10	10	10	12	0	2	12008	16:28:19	16:30:39
195	1/3/2008	10	10	12	10	2	0	12008	16:30:53	16:33:16
196	1/3/2008	10	10	10	12	0	2	12008	16:33:24	16:35:39
197	1/3/2008	10	10	12	10	2	0	12008	16:35:48	16:38:11
198	1/3/2008	10	10	10	12	0	2	12008	16:38:18	16:40:33
199	1/3/2008	10	10	12	10	2	0	12008	16:40:35	16:42:57
200	1/3/2008	10	10	10	12	0	2	12008	16:43:02	16:45:17
201	1/3/2008	10	10	12	10	2	0	12008	16:45:28	16:47:49
202	1/3/2008	10	10	10	12	0	2	12008	16:47:57	16:50:13
203	1/3/2008	10	10	12	10	2	0	12008	16:50:16	16:52:38

LAMPIRAN C

Table ASCII -I

Dec	Hex	Char	Dec	Hex	Char	Dec	Hex	Char	Dec	Hex	Char
0	00	Null	32	20	Space	64	40	@	96	60	`
1	01	Start of heading	33	21	!	65	41	A	97	61	a
2	02	Start of text	34	22	"	66	42	B	98	62	b
3	03	End of text	35	23	#	67	43	C	99	63	c
4	04	End of transmit	36	24	\$	68	44	D	100	64	d
5	05	Enquiry	37	25	%	69	45	E	101	65	e
6	06	Acknowledge	38	26	&	70	46	F	102	66	f
7	07	Audible bell	39	27	'	71	47	G	103	67	g
8	08	Backspace	40	28	(	72	48	H	104	68	h
9	09	Horizontal tab	41	29	)	73	49	I	105	69	i
10	0A	Line feed	42	2A	*	74	4A	J	106	6A	j
11	0B	Vertical tab	43	2B	+	75	4B	K	107	6B	k
12	0C	Form feed	44	2C	,	76	4C	L	108	6C	l
13	0D	Carriage return	45	2D	-	77	4D	M	109	6D	m
14	0E	Shift out	46	2E	.	78	4E	N	110	6E	n
15	0F	Shift in	47	2F	/	79	4F	O	111	6F	o
16	10	Data link escape	48	30	0	80	50	P	112	70	p
17	11	Device control 1	49	31	1	81	51	Q	113	71	q
18	12	Device control 2	50	32	2	82	52	R	114	72	r
19	13	Device control 3	51	33	3	83	53	S	115	73	s
20	14	Device control 4	52	34	4	84	54	T	116	74	t
21	15	Neg. acknowledge	53	35	5	85	55	U	117	75	u
22	16	Synchronous idle	54	36	6	86	56	V	118	76	v
23	17	End trans. block	55	37	7	87	57	W	119	77	w
24	18	Cancel	56	38	8	88	58	X	120	78	x
25	19	End of medium	57	39	9	89	59	Y	121	79	y
26	1A	Substitution	58	3A	:	90	5A	Z	122	7A	z
27	1B	Escape	59	3B	;	91	5B	[	123	7B	{
28	1C	File separator	60	3C	<	92	5C	\	124	7C	
29	1D	Group separator	61	3D	=	93	5D	]	125	7D	}
30	1E	Record separator	62	3E	>	94	5E	^	126	7E	~
31	1F	Unit separator	63	3F	?	95	5F	_	127	7F	□

TABLE ASCII -II

Dec	Hex	Char	Dec	Hex	Char	Dec	Hex	Char	Dec	Hex	Char
128	80	À	160	A0	Á	192	C0	Ì	224	E0	α
129	81	Ã	161	A1	Â	193	C1	Í	225	E1	ß
130	82	É	162	A2	Ó	194	C2	Î	226	E2	Γ
131	83	À	163	A3	Ù	195	C3	Ï	227	E3	Π
132	84	Ä	164	A4	Ñ	196	C4	Ï	228	E4	Σ
133	85	Å	165	A5	Ñ	197	C5	Ï	229	E5	σ
134	86	Ä	166	A6	ª	198	C6	Ï	230	E6	μ
135	87	Ç	167	A7	º	199	C7	Ï	231	E7	ι
136	88	È	168	A8	¿	200	C8	Ï	232	E8	Φ
137	89	Ë	169	A9	¸	201	C9	Ï	233	E9	Θ
138	8A	È	170	AA	¸	202	CA	Ï	234	EA	Ω
139	8B	Ì	171	AB	½	203	CB	Ï	235	EB	Ö
140	8C	Ì	172	AC	¾	204	CC	Ï	236	EC	∞
141	8D	Ì	173	AD	¿	205	CD	=	237	ED	∞
142	8E	Ä	174	AE	«	206	CE	±	238	EE	£
143	8F	Ä	175	AF	»	207	CF	±	239	EF	Π
144	90	É	176	B0	░	208	D0	±	240	FO	≡
145	91	Æ	177	B1	▒	209	D1	±	241	F1	±
146	92	Æ	178	B2	▓	210	D2	±	242	F2	≥
147	93	Ó	179	B3		211	D3	±	243	F3	≤
148	94	Ö	180	B4	¸	212	D4	±	244	F4	¸
149	95	Ö	181	B5	¸	213	D5	±	245	F5	¸
150	96	Ù	182	B6	¸	214	D6	±	246	F6	÷
151	97	Ù	183	B7	¸	215	D7	±	247	F7	≈
152	98	Ý	184	B8	¸	216	D8	±	248	F8	•
153	99	Ö	185	B9	¸	217	D9	±	249	F9	•
154	9A	Û	186	BA	¸	218	DA	±	250	FA	•
155	9B	◊	187	BB	¸	219	DB	±	251	FB	√
156	9C	£	188	BC	¸	220	DC	±	252	FC	±
157	9D	¥	189	BD	¸	221	DD	±	253	FD	±
158	9E	£	190	BE	¸	222	DE	±	254	FE	±
159	9F	f	191	BF	¸	223	DF	±	255	FF	□