

LAMPIRAN A

SKEMA PROGRAM PERINGATAN BATAS KECEPATAN DENGAN OUTPUT LED DAN SUARA

```
#include <mega8535.h>

#include <delay.h>

// Declare your global variables here

void main(void)
{
// Declare your local variables here

// Input/Output Ports initialization

// Port A initialization

// Func7=In Func6=In Func5=In Func4=In Func3=In Func2=In Func1=In
Func0=In

// State7=T State6=T State5=T State4=T State3=T State2=T State1=T State0=T

PORTA=0x00;

DDRA=0x00;

// Port B initialization

// Func7=In Func6=In Func5=In Func4=In Func3=In Func2=In Func1=In
Func0=In

// State7=T State6=T State5=T State4=T State3=T State2=T State1=T State0=T

PORTB=0x00;

DDRB=0x00;
```

```

// Port C initialization

// Func7=Out Func6=Out Func5=Out Func4=Out Func3=Out Func2=Out
Func1=Out Func0=Out

// State7=1 State6=1 State5=1 State4=1 State3=1 State2=1 State1=1 State0=1

PORTC=0xFF;

DDRC=0xFF;

// Port D initialization

// Func7=Out Func6=Out Func5=Out Func4=Out Func3=Out Func2=Out
Func1=Out Func0=Out

// State7=1 State6=1 State5=1 State4=1 State3=1 State2=1 State1=1 State0=1

PORTD=0xFF;

DDRD=0xFF;

// Timer/Counter 0 initialization

// Clock source: System Clock

// Clock value: Timer 0 Stopped

// Mode: Normal top=FFh

// OC0 output: Disconnected

TCCR0=0x00;

TCNT0=0x00;

OCR0=0x00;

// Timer/Counter 1 initialization

// Clock source: System Clock

// Clock value: Timer 1 Stopped

// Mode: Normal top=FFFFh

```

```
// OC1A output: Discon.
// OC1B output: Discon.
// Noise Canceler: Off
// Input Capture on Falling Edge
// Timer 1 Overflow Interrupt: Off
// Input Capture Interrupt: Off
// Compare A Match Interrupt: Off
// Compare B Match Interrupt: Off
TCCR1A=0x00;
TCCR1B=0x00;
TCNT1H=0x00;
TCNT1L=0x00;
ICR1H=0x00;
ICR1L=0x00;
OCR1AH=0x00;
OCR1AL=0x00;
OCR1BH=0x00;
OCR1BL=0x00;

// Timer/Counter 2 initialization
// Clock source: System Clock
// Clock value: Timer 2 Stopped
// Mode: Normal top=FFh
// OC2 output: Disconnected
ASSR=0x00;
```

```

TCCR2=0x00;

TCNT2=0x00;

OCR2=0x00;

// External Interrupt(s) initialization

// INT0: Off

// INT1: Off

// INT2: Off

MCUCR=0x00;

MCUCSR=0x00;

// Timer(s)/Counter(s) Interrupt(s) initialization

TIMSK=0x00;

// Analog Comparator initialization

// Analog Comparator: Off

// Analog Comparator Input Capture by Timer/Counter 1: Off

ACSR=0x80;

SFIOR=0x00;

while (1)
{
    // Place your code here

    if(PINA.0==1)
    {
        PORTC=0b11111111;

        delay_ms(3000);

        PORTC=0b00000000;

        delay_ms(3000);
    }
}

```

```
}  
else if (PINA.2==1)  
{  
PORTC=0b11111111;  
delay_ms(1500);  
PORTC=0b00000000;  
delay_ms(1500);  
}  
else if (PINA.4==1)  
{  
PORTC=0b11111111;  
delay_ms(1000);  
PORTC=0b00000000;  
delay_ms(1000);  
}  
else if (PINB.0==1)  
{  
PORTC=0b11111111;  
delay_ms(500);  
PORTC=0b00000000;  
delay_ms(500);  
PORTD=0b11111111;  
delay_ms(500);  
PORTD=0b00000000;  
delay_ms(500);
```

```
}  
else if(PINB.4==1)  
{  
PORTC=0b11111111;  
delay_ms(500);  
PORTC=0b00000000;  
delay_ms(500);  
PORTD=0b11111111;  
delay_ms(500);  
PORTD=0b00000000;  
delay_ms(500);  
}  
else if (PINA.6==1)  
{  
PORTB=0b01111111;  
}  
}  
};
```