

LAMPIRAN A

Source Code Program

```
#include <mega16.h>

// Alphanumeric LCD Module functions

#asm

    .equ __lcd_port=0x15 ;PORTC

#endasm

#include <lcd.h>

#include <delay.h>

#include <stdlib.h>

// Declare your global variables here

unsigned char counter[0];

int kondisi;

long int i;

void main(void)

{

    PORTA=0xFF;

    DDRA=0x00;

    PORTB=0xFF;

    DDRB=0x00;

    PORTC=0x00;

    DDRC=0x00;

// LCD module initialization

    lcd_init(16);

    lcd_gotoxy(1,0);
```

```

lcd_putsf("Pulse Detector");

lcd_gotoxy(2,1);

lcd_putsf("Please Wait");

delay_ms(500);

lcd_gotoxy(13,1);

lcd_putsf(".");

delay_ms(500);

lcd_gotoxy(14,1);

lcd_putsf(".");

delay_ms(500);

lcd_gotoxy(15,1);

lcd_putsf(".");

delay_ms(500);

lcd_clear();

while (1)
{
if(PINA.0==1)
{
for ( i=0; i< 10; i++)
{
kondisi=0;

if(kondisi==0)&&(PINB.0==1)
{
counter++;

kondisi=1;

if(kondisi==1)&&(PINB.0==0)
{

kondisi=0;

```

```
        }
        }
    delay_ms(1000);
    }
}
lcd_gotoxy(0,0);
lcd_putsf("Jumlah Denyut :");
lcd_gotoxy(0,1);
lcd_putsf(counter*6);
};
}
```

LAMPIRAN B

Realisasi Alat Penghitung Denyut Jantung

