```
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Maharaja //TE-D
//304D074
//EXP10
#include<stdio.h>
#include <p18f4550.h>
#define RS LATCbits.LATC0
#define E LATCbits.LATC1
#define LCDPORT LATB
void delay()
unsigned int i;
for(i=0;i<30000;i++)
 }
}
void
        sendCommand(unsigned
                                    char
command) {
LCDPORT=command;
delay();
RS=0;
delay();
E=1;
delay();
E=O;
delay();
void sendData(unsigned char data)
LCDPORT=data;
delay();
RS=1;
delay();
E=1;
delay();
E=O;
delay();
void InitLCD(void)
sendCommand(0x38);
sendCommand(0x01);
sendCommand(0x0F);
sendCommand(0x06);
```

```
}
void ADCInit()
TRISEbits.RE2 = 1;
ADCON0 = 0b00011101;
ADCON1 = 0b00000111;
ADCON2 = 0b10101110;
unsigned short Read_ADC()
GODONE = 1;
while(GODONE == 1);
return ADRES;
void DisplayResult(unsigned short ADCVal)
unsigned char i,text[16];
unsigned short tempv;
tempv = ADCVal;
ADCVal = (5500/1024)*tempv;
sprintf(text,"%04dmv",ADCVal);
sendCommand(0x80);
for(i=0;i<6;i++)
sendData(text[i]);
sendCommand(0xC0);
for(i=0;i<10;i++)
if(tempv & 0x200)
sendData('1');
else
sendData('0');
tempv=tempv<<1;
void main()
unsigned short Ch_result;
```

```
TRISB = 0x00;
TRISCbits.RC0 = 0;
TRISCbits.RC1 = 0;
ADCInit();
InitLCD();
while(1)
{
Ch_result = Read_ADC();
DisplayResult(Ch_result); delay();
delay();
}
}
```