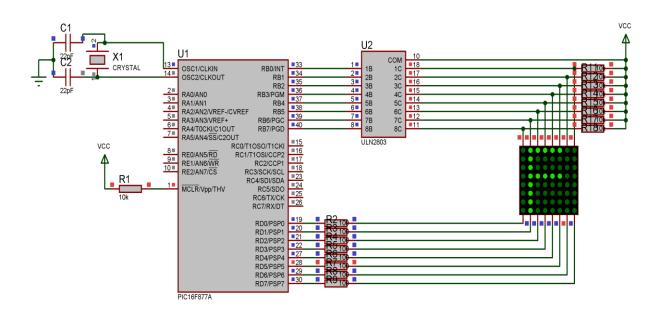
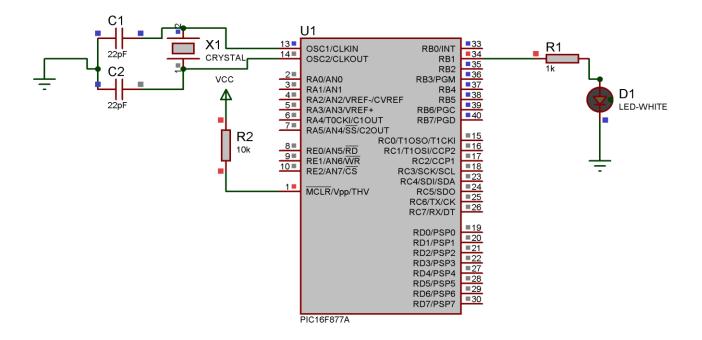
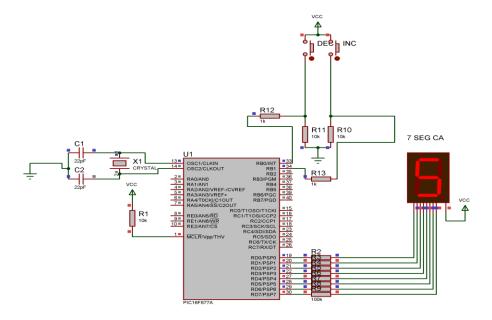
```
void main() {
  TRISB = 0x00;
  TRISD = 0x00;
                                                     PORTD = 1<<3;
                                                     PORTB = 0x90;
  while(1)
                                                     Delay_us(100);
    PORTD = 1<<7;
                                                     PORTD = 1<<2;
    PORTB = 0x00;
                                                     PORTB = 0x90;
    Delay_us(100);
                                                     Delay_us(100);
    PORTD = 1<<6;
                                                     PORTD = 1<<1;
    PORTB = 0x00;
                                                     PORTB = OxFF;
    Delay_us(100);
                                                     Delay_us(100);
    PORTD = 1<<5;
                                                     PORTD = 1<<0;
    PORTB = 0x90;
                                                     PORTB = 0x00;
    Delay_us(100);
                                                     Delay_us(100);
   PORTD = 1<<4;
    PORTB = 0x90;
    Delay_us(100);
```



```
void main() {
   TRISB = 0;
   while(1)
   {
      PORTB = 0x02;
      Delay_ms(1000);
      PORTB = 0x00;
      Delay_ms(1000);
}
```

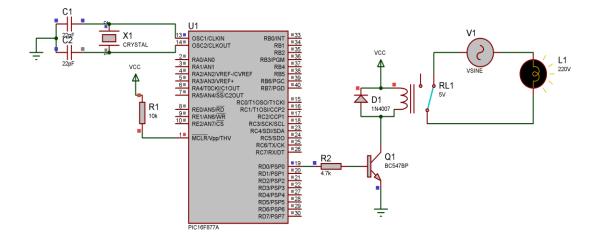


```
char ch[] = {0xC0, 0xF9, 0xA4, 0xB0, 0x99, 0x92,
0x82, 0xF8, 0x80, 0x90};
                                                     if(PORTB.F0 == 1)
void main() {
   int i = 0;
                                                           Delay_ms(150);
   TRISD = 0x00;
                                                           if(PORTB.F0 == 1) {
   TRISB.F0 = 1;
                                                             if(i > 0)
   TRISB.F1 = 1;
   PORTD = 0xFF;
                                                                i--;
   while(1)
                                                             PORTD = ch[i];
    if(PORTB.F1 == 1) {
      Delay_ms(150);
      if(PORTB.F1 == 1) {
       if(i < 9) {
          i++;
       PORTD = ch[i];
```

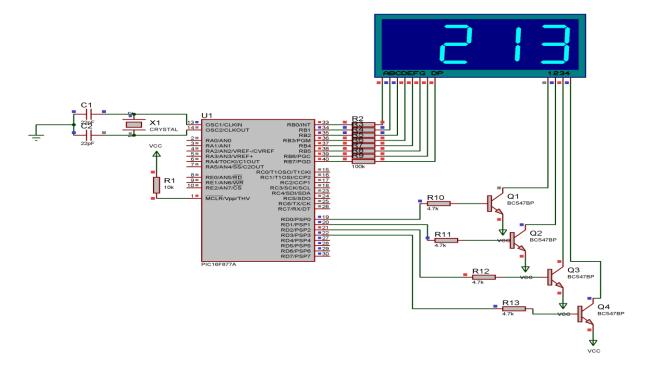


```
void main() {
    TRISD.F0 = 0;
    PORTD.F0 = 0;

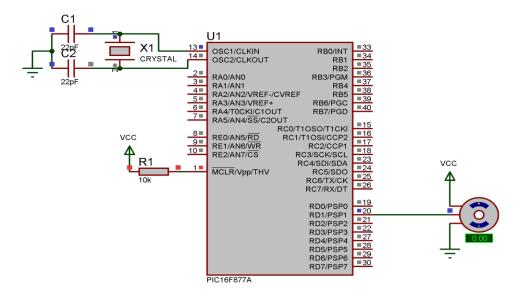
    while(1)
    {
        PORTD.F0 = 1;
        Delay_ms(1000);
        PORTD.F0 = 0;
        Delay_ms(1000);
}
```



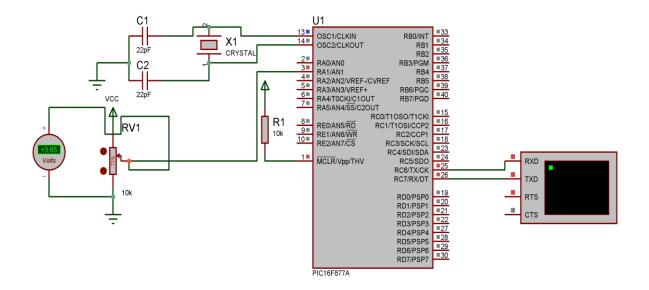
```
char ch[] = \{0xC0, 0xF9, 0xA4, 0xB0, 0x99, 0x92,
                                                               if(i >= 100){
0x82, 0xF8, 0x80, 0x90};
                                                                  PORTD.F1 = 1;
                                                                  PORTB = ch[secondDigit];
void main() {
 int i, j, firstDigit, secondDigit, thirdDigit,
                                                                  Delay_ms(5);
fourthDigit;
                                                                  PORTD.F1 = 0;
 TRISB = 0x00;
                                                               }
 PORTB = 0x00;
                                                         if(i >= 10){
 TRISD = 0x00;
                                                                 PORTD.F2 = 1;
 PORTD = 0x00;
                                                                 PORTB = ch[thirdDigit];
 while(1){
                                                                 Delay ms(5);
   for(i = 0; i < 10000; i++) {
                                                                 PORTD.F2 = 0;
     firstDigit = i / 1000;
     secondDigit = (i / 100) \% 10;
                                                               PORTD.F3 = 1;
     thirdDigit = (i / 10) % 10;
                                                               PORTB = ch[fourthDigit];
     fourthDigit = i % 10;
                                                               Delay_ms(5);
     for(j = 0; j < 12; j++) {
                                                               PORTD.F3 = 0;
      if(i >= 1000) {
         PORTD.F0 = 1;
                                                           }
         PORTB = ch[firstDigit];
         Delay ms(5);
         PORTD.F0 = 0;
```



```
void rotate0()
                                                       void rotate180()
  int i = 0;
  for(i = 0; i < 50; i++)
                                                        int i = 0;
                                                        for(i = 0; i < 50; i++)
     PORTD.F1 = 1;
     Delay_us(800);
                                                           PORTD.F1 = 1;
     PORTD.F1 = 0;
                                                           Delay_us(2200);
     Delay_us(19200);
                                                           PORTD.F1 = 0;
                                                           Delay_us(17800);
}
void rotate90()
  int i = 0;
  for(i = 0; i < 50; i++)
     PORTD.F1 = 1;
     Delay_us(1500);
     PORTD.F1 = 0;
     Delay_us(18500);
 }
}
```



```
int ADCValue;
char ch[4];
void main() {
    UART1_Init(9600);
    ADC_Init();
    while(1)
    {
        ADCValue = ADC_Read(1);
        IntToStr(ADCValue, ch);
        UART1_Write_Text("Analog Value-");
        UART1_Write_Text(ch);
        strcpy(ch, "");
        UART1_Write(13);
        Delay_ms(1000);
    }
}
```



LIST OF EXPERIMENTS

Serial no.	Experiments	Page
1	To design and implement an LED Blinking circuit using a PIC microcontroller	
2	To design and implement Counting from 0 to 9 on a 7-Segment Display using PIC Microcontroller.	
3	To design and implement Controlling AC Current using DC Current with a Mechanical Relay	
4	To design and implement Displaying a 4-Digit Number on a 7-Segment using Multiplexing with PIC Microcontroller	
5	To design and implement Analog signal input in the microcontroller or Display ADC value in the virtual terminal	
6	To design and implement Dot Matrix Display Interfacing With PIC16F877A Microcontroller	
7	To design and implement Interfacing Servo Motor with PIC Microcontroller	