## E:/ANIL TE PRACS/MCA FILES/expt\_9c.X/exp\_9c.c

```
1 /*
2 * Experiment No. 9_B
   * Program statement: Interface serial communication port (USART) of PIC18
4 * with PC and write an embedded C program for PIC18 to receive and
transmit
5 * the information serially form PC to microcontroller and microcontroller
6 * to PC for various baud rates and display the received information on
led
   * or LCD.
8 * Roll no. - 312046 Batch no. - B2
9 * Date of performance- 12/09/2018
10 */
11
12 #include "LCD.h"
13
14 void main(){
15
      TXSTA = 0b00100000; //Enable the transmit bit
16
      RCSTA = 0b10010000;
                                  //Serial port enabled
17
      SPBRG = 12;
                                  //X = ((8M/9600)/64)-1 X = 12.02 = SPBRG
18
     TRISCbits.TRISC6 = 0;
                                  //Tx pin as output
      TRISCbits.TRISC7 = 1;
19
                                  //Rx pin as input
20
     while(1){}
21
          serialComm();
22
23 }
24
25 void serialComm(){
      while(PIR1bits.RCIF == 0);    //Wait until all data is received
26
27
      displayMsg(1,1,RCREG); //Display received data on LCD
28
      TXREG = RCREG;
                                  //Transmit received data
      while(PIR1bits.TXIF == 0);    //Wait until all data is transmitted
29
30 }
```