```
 1 /*
 2  *  Experiment No. 9_A
 3  *  Program statement: Interface serial communication port(USART) of PIC18
 4  *  with PC and write an embedded C program for PIC18 to transfer the
 5  *  information serially form microcontroller to PC for various baudrates.
 6  *  Roll no.- 312046     Batch no.- B2
 7  *  Date of performance- 12/09/2018
 8  */
 9
10 #include<P18F452.h>
11 #pragma config OSC = HS
12 #pragma config PWRT = OFF
13 #pragma config WDT = OFF
14 #pragma config DEBUG = OFF
15 #pragma config LVP = OFF
16
17 void serialTransmit(unsigned char data[50]);     //Function prototype
18 unsigned int i;
19
20 void main(){
21     TXSTA = 0b00100000;                          //Enable the transmit bit
22     RCSTA = 0b10000000;                          //Serial port enabled
23     SPBRG = 12;                  //X = ((8M/9600)/64)-1  X = 12.02 = SPBRG
24     TRISCbits.TRISC6 = 0;                        //Tx pin as output
25     while(1){
26         serialTransmit('ANIL E&TC VIIT');
27     }
28 }
29
30 void serialTransmit(unsigned char TX_data[50]){    //Function to transmit
data
31     while(PIR1bits.TXIF == 0);            //wait until all data is
transmitted
32     for(i = 0;TX_data[i]!='\0';i++){
33         TXREG = TX_data[i];
34         while(PIR1bits.TXIF == 0);
35     }
36 }
```