…………**Serial Transmitter Prog-1**………………..

#include <reg51.h>

void main(void){

TMOD=0x20; //use Timer 1, mode 2

TH1=0xFA; //4800 baud rate

SCON=0x50;

TR1=1;

while (1) {

SBUF='A'; //place value in buffer

while (TI==0); // watech the TI flag

TI=0;

}

}

…………**Serial Transmitter Prog-2**………………..

#include <reg51.h>

void SerTx(unsigned char);

void main(void){

TMOD=0x20; //use Timer 1, mode 2

TH1=0xFD; //9600 baud rate

SCON=0x50;

TR1=1; //start timer

while (1) {

SerTx('Y');

SerTx('E');

SerTx('S');

}

}

void SerTx(unsigned char x){

SBUF=x; //place value in buffer

while (TI==0); //wait until transmitted

TI=0;

}

…………**Serial Receiver Prog-1**………………..

#include <reg51.h>

void main(void){

unsigned char mybyte;

TMOD=0x20; //use Timer 1, mode 2

TH1=0xFA; //4800 baud rate

SCON=0x50;

TR1=1; //start timer

while (1) { //repeat forever

while (RI==0); //wait to receive

mybyte=SBUF; //save value

P1=mybyte; //write value to port

RI=0;

}

}