Pract:-6

#include<reg51.h>

sbit G=P1^0;

sbit F=P1^1;

sbit S=P1^2;

sbit T=P1^3;

void delay(unsigned int t)

{

int i,j;

for(i=0;i<=t;i++)

{

for(j=0;j<1257;j++);

}

}

void main()

{

P2=0x01;

P3=0x00;

while(1)

{

if(G==0 && P2!=0x01)

{

while(P2!=0x01)

{

P2=P2>>1;

P3=0x3F;

delay(100);

}

}

if(F==0 && P2>0x04)

{

while(P2!=0x04)

{

P2=P2>>1;

P3=0x06;

delay(100);

}

}

if(F==0 && P2<0x04)

{

while(P2!=0x04)

{

P2=P2<<1;

P3=0x06;

delay(100);

}

}

if(S==0 && P2!=0x10)

{

while(P2!=0x10)

{

P2=P2>>1;

P3=0x5B;

delay(100);

}

}

if(S==0 && P2==0x10)

{

while(P2!=0x10)

{

P2=P2<<1;

P3=0x5B;

delay(100);

}

}

if(T==0 && P2!=0x40)

{

while(P2!=0x40)

{

P2=P2<<1;

P3=0x4F;

delay(100);

}

}

}

}

Output:- 