Expt 1 : memory Transfer (assembly language .asm)

ORG 0000H

MOV R0,20H

MOV R1,0AH

MOV R7,00H

CLR A

UP:ADD A,@R0

JNC DOWN

INC R7

DOWN:INC R0

DJNZ R1,UP

MOV 30H,A

MOV 31H,R7

END

Expt 2: LED interfacing using keil software

#include<reg51.h>

void delay()

{

int i;

for(i=0;i<1000;i++)

{

}

}

void main()

{

P1=0x00;

while(1)

{

P1=0xaa;

delay();

P1=0x55;

delay();

}

}

Expt 3: Interfacing of square wave…

#include<reg51.h>

void main()

{

unsigned char i;

while(1)

{ for(i=0;i<0xff;i++)

{

P1=i;

}

for(i=0xff;i>0;i--)

{

P1=i;

}

}

}

EXPT 4 : interfacing LCD

#include<reg51.h>

#define LCD P2

sbit RS=P3^0;

sbit EN=P3^1;

unsigned char txt[12]="ROLL-NO 64";

void delay(){

int k;

for(k=0;k<=1000;k++);

}

void lcd(char a,short int b){

LCD=a;

RS=b;

EN=1;

delay();

EN=0;

}

void main(){

int i=0;

lcd(0x36,0);

lcd(0x0f,0);

lcd(0x01,0);

lcd(0x02,0);

lcd(0x80,0);

for(i=0;i<=11;i++){

lcd(txt[i],1);

}

while(1);

}