Q. a program to show the status of LED in a LCD display

SYntax:

#include <avr/io.h>

#define F\_CPU 16000000UL

#include <util/delay.h>

#define RS 7

#define E 5

void send\_command(unsigned char command);

void send\_character(unsigned char character);

int main(void)

{

DDRC=0XFF;

DDRD=0XFF;

\_delay\_ms(50);

send\_command(0x01);

send\_command(0X38);

send\_command(0X0E);

DDRA|=(1<<PA0);

DDRB&=~(1<<PB0);

while(1)

{

if((PINB&(1<<PB0))==0)

{

PORTA|=(1<<PA0);

send\_command(0x01);

send\_character(0X4C);

send\_character(0X45);

send\_character(0X44);

send\_character(0X20);

send\_character(0X4F);

send\_character(0x4E);

\_delay\_ms(3000);

PORTA&=~(1<<PA0);

send\_command(0x01);

send\_character(0X4C);

send\_character(0X45);

send\_character(0X44);

send\_character(0X20);

send\_character(0X4F);

send\_character(0x46);

send\_character(0X46);

}

}

}

void send\_command(unsigned char command)

{

PORTC=command;

PORTD&=~(1<<RS);

PORTD|=(1<<E);

\_delay\_ms(50);

PORTD&=~(1<<E);

PORTC=0;

}

void send\_character(unsigned char character)

{

PORTC=character;

PORTD|=(1<<RS);

PORTD|=(1<<E);

\_delay\_ms(50);

PORTD&=~(1<<E);

PORTC=0;

}