07 Write an Embedded C program to Operate the Relay based on External Interrupt INT0/RB0 (ISR Method)(Answer sheet : draw interfacing diagram, Draw INTCON Register & INTCON2 Register & Write code ) (Simulate using Proteous & Perform on PIC18 Kit)

#include <xc.h>

void interruptISR (high\_priority)

{

PORTBbits.RB2=~PORTBbits.RB2; //Toggle the RB2

INTCONbits.INT0IF=0; //Reset the interrupt flag

}

void main()

{

ADCON1 = 0x0F; // Configuring PORT pins as digital I/O

TRISBbits.TRISB2 = 0; // Configuring the RB2 as output

PORTBbits.RB2 = 0; // Setting the initial value

TRISBbits.TRISB0=1; // Make INT0 pin as an input pin

INTCON2=0x00; // Interrupt detection on falling Edge

INTCONbits.INT0IF=0; // Clear INT0IF flag

INTCONbits.INT0IE=1; // Enable INT0 external interrupt

INTCONbits.GIE=1; // Enable Global Interrupt

while(1);

}

