Assignment-9

```
#include <pic18f4550.h>
//#include<xc.h>
#define RELAY_PIN LATAbits.LATA4
void __interrupt() extint_isr(void)
  unsigned int i;
  if(INT1IF)
  {
    INT1IF = 0;
    INT1IE = 0;
    RELAY_PIN = \sim RELAY_PIN;
    for(i=0; i<10000; i++); //small delay for debouncing
    INT1IE = 1;
}
int main(){
  ADCON1 = 0x0F;
                        //set pins as Digital in Analog To Digital Control Register 1
  TRISAbits.TRISA4 = 0; //set relay pin RA4 as output
  TRISBbits.TRISB1 = 1; //Interrupt pin as input
  RELAY PIN = 1;
                          //Enable external interrupt INT1
  INT1IE = 1;
  INTEDG1 = 0;
                             //Interrupt on falling edge
                      // Enable global interrupt
  GIE = 1;
  while(1);
}
```

