Write a C code and test in MSP eval board

1)Configure 57600 baudrate in UART

2)Write a code to read a byte from UART, If its a small letter turn it into caps and print, if its caps keep as it is and print,

IF its a number print your name that number of times.

3)Test on msp430kit

instructions:

1)Explain flow chart , description of flow then code with coding guidelines with comments wherever required

2)close exam exactly at 1:10pm. No more time will be given

**#include** <msp430.h>

**int** **main**(**void**)

{

WDTCTL = WDTPW | WDTHOLD; // stop watchdog timer

UCA1CTLW0 |= UCSWRST;

UCA1CTLW0 |= UCSSEL\_\_SMCLK;

UCA1BRW = 8;

UCA1MCTLW=0XD600;

P4SEL1&=~BIT2;

P4SEL0 |= BIT2;

P4SEL1&=~BIT3;

P4SEL0|=BIT3;

PM5CTL0&=~LOCKLPM5;

UCA1CTLW0&=~UCSWRST;

UCA1IE|=UCRXIE;

**\_\_enable\_interrupt**();

**int** i;

**char** var;

UCA1RXBUF=var;

**if**(var>=97&&var<=122)

{

var=var-32;

UCA1TXBUF= var;

}

**else** **if**(var>=48&&var<=57)

{

**for**(i=0;i<var-48;i++)

{

UCA1TXBUF="vijay";

}

}

**else**{

UCA1TXBUF=var;

}

**return** 0;

}

**#pragma** vector = EUSCI\_A1\_VECTOR

\_\_interrupt **void** **EUSCI\_A1\_RX\_ISR**(**void**)

{

**if**(UCA1RXBUF)

{

P4OUT ^= BIT3;

}

}