**CSE321(Lab03)**

**Name: Sifat Abdullah**

**Id:19101384**

**Task01:**

import java.util.Scanner;

public class Task1{

public static void main(String[]args){

System.out.println("Enter the values");

Scanner sc = new Scanner(System.in);

int x = sc.nextInt();

int y = sc.nextInt();

MyThread add = new MyThread("add");

MyThread sub = new MyThread("sub");

MyThread mul = new MyThread("mul");

MyThread div = new MyThread("div");

MyThread oth = new MyThread("oth");

add.add(x,y);

sub.sub(x,y);

mul.mul(x,y);

div.div(x,y);

oth.oth(x,y);

}

}

class MyThread extends Thread{

public MyThread(String name){

super(name);

}

public void add(int a, int b){

int c= a+b;

System.out.println("Add = " +c);

}

public void sub(int a, int b){

int c= a-b;

System.out.println("Sub = "+c);

}

public void mul(int a, int b){

int c= a\*b;

System.out.println("Mul = "+c);

}

public void div(int a, int b){

int c= a/b;

System.out.println("Div = "+c);

}

public void oth(int a, int b){

System.out.println("No valid operation");

}

}

**Task02:**

public class Task2{

public static void main(String[]args){

Mythread House1 = new Mythread("House Stark");

Mythread House2 = new Mythread("House Targaryen");

Mythread House3 = new Mythread("House Lannister");

Mythread House4 = new Mythread("House Bolton");

Mythread House5 = new Mythread("House Tyrell");

House1.setPriority(Thread.MAX\_PRIORITY);

House4.setPriority(Thread.MIN\_PRIORITY);

House1.start();

House2.start();

House3.start();

House4.start();

House5.start();

try{

House1.join();

House2.join();

House3.join();

House4.join();

House5.join();

}

catch (InterruptedException e){

e.printStackTrace();

}

if(House1.isAlive()){

System.out.println("Not Today!");

}

if(!House4.isAlive()){

System.out.println("You know nothing!");

}

}

}

class Mythread extends Thread{

public Mythread(String name){

super(name);

}

public void run(){

System.out.println("The House is : " + Thread.currentThread().getName());

}

}