

# LABPROGRAM\_EXTRAPROBLEM\_1 (08/12/2020)

## Q.1) CREATE THREAD TO ADD FIRST 50 ODD AND EVEN NUMBERS?

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### INSTRUCTIONS

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```
/*Write a program to create a thread and find the sum of odd numbers from 1
to 100 in
    this thread. Find the sum of even numbers for the same range in the
main thread.*/
class thread7 implements Runnable{
    Thread t;
    int sumeven=0,temp1;
    thread7(){
        t = new Thread(this,"CHILD_1");
        t.start();
    }
    public void run(){
        try{
            for(int i=100;i>0;i--){
                if(i%2==0){
                    temp1= i;
                    sumeven = sumeven+i;
                    System.out.println(i+"th EVEN ADDITION :"+(sumeven));
                    Thread.sleep(1500);
                }
                else{
                    System.out.println(" ");
                }
            }
            System.out.println("-----
\nADDITION OF EVEN FROM 1 TO 100 : "+sumeven+"\n-----
-----");
        }catch(InterruptedException ie){
            System.out.println("CHILD 1 WAS INTERRUPTED WHILE SLEEPING");
        }
    }
}
```

```

    }
    System.out.println("CHILD 1 EXITED");
}
}

class thread7Main{
    public static void main(String ss[]){
        thread7 n1 =new thread7();
        int sumodd=0,temp;
        try{
            for(int i=100;i>0;i--){
                if(i%2 != 0){
                    temp=i;
                    sumodd= sumodd+temp;
                    System.out.println(i+"th ODD ADDITION :"+(sumodd));
                    Thread.sleep(1000);
                }
                else{
                    System.out.println(" ");
                }
            }
            System.out.println("-----
\nADDITION OF ODD FROM 1 TO 100 : "+sumodd+"\n-----
-----");
        }catch (InterruptedException e){
            System.out.println("MAIN THREAD WAS INTERRUPTED");
        }
        System.out.println("MAIN THREAD EXITED");
    }
}

```

-----EVEN OUTPUT-----

```
16th EVEN ADDITION :2494

14th EVEN ADDITION :2508

12th EVEN ADDITION :2520

10th EVEN ADDITION :2530

8th EVEN ADDITION :2538

6th EVEN ADDITION :2544

4th EVEN ADDITION :2548

2th EVEN ADDITION :2550

-----
ADDITION OF EVEN FROM 1 TO 100 : 2550
-----
CHILD 1 EXITED

Process finished with exit code 0
|
```

-----**ODD OUTPUT**-----

```
9th ODD ADDITION :2484

7th ODD ADDITION :2491

38th EVEN ADDITION :2208

5th ODD ADDITION :2496

36th EVEN ADDITION :2244

3th ODD ADDITION :2499

1th ODD ADDITION :2500

34th EVEN ADDITION :2278
-----
ADDITION OF ODD FROM 1 TO 100 : 2500
-----
MAIN THREAD EXITED
```