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```
class NewThread implements Runnable{
    Thread t;
    int sumeven=0,temp1;
    NewThread(){
        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(1000);
                }
                else{
                    System.out.println(" ");
                }
            }
        }catch(InterruptedException ie){
            System.out.println("CHILD 1 WAS INTERRUPTED WHILE SLEEPING");
        }
        System.out.println("CHILD 1 EXITED");
    }
}


public class Mainthread2{
    public static void main(String ss[]){
        NewThread n1 =new NewThread();
        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(" ");
                }
            }
        }catch(InterruptedException e){
            System.out.println("MAIN THREAD WAS INTERRUPTED");
        }
        System.out.println("MAIN THREAD EXITED");
    }
```

Mainthread3.java - Notepad

File Edit Format View Help

```
import java.util.Random;
class NewThread implements Runnable{
    Thread a,b,c;
    NewThread(){
        a = new Thread(this,"THREAD1");
        b = new Thread(this,"THREAD_2");
        c = new Thread(this,"THREAD_3");
        b.start();
        c.start();
    }

    public void run(){
        try {
            Random rand = new Random();
            for (int i=0;i<5;i++) {
                int rand_int = rand.nextInt(10);
                Thread.sleep(1000);
                if (rand_int % 2 == 0) {
                    int temp, sq;
                    temp = rand_int;
                    sq = temp * temp;
                    System.out.println("SQUARE OF: "+temp+ " :"+ sq);
                    Thread.sleep(1000);
                } else {
                    int temp1, cube;
                    temp1 = rand_int;
                    cube = temp1 * temp1 * temp1;
                    System.out.println("CUBE OF: "+temp1+" :"+cube);
                    Thread.sleep(4000);
                }

            }
        } catch(InterruptedException e){
            System.out.println("CHILD THREADS ARE INTERRUPTED");
        }

    }
}


public class Mainthread3{
    public static void main(String ss[]){
        NewThread n1 = new NewThread();
    }
}
```

Command Prompt

```
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C:\Users\anant>cd JAVA A

C:\Users\anant\JAVA A>javac Mainthread2.java

C:\Users\anant\JAVA A>java Mainthread2

100th EVEN ADDITION :100
99th ODD ADDITION :99


97th ODD ADDITION :196
98th EVEN ADDITION :198


96th EVEN ADDITION :294
95th ODD ADDITION :291


94th EVEN ADDITION :388
93th ODD ADDITION :384


92th EVEN ADDITION :480
91th ODD ADDITION :475


90th EVEN ADDITION :570
89th ODD ADDITION :564


87th ODD ADDITION :651
88th EVEN ADDITION :658


85th ODD ADDITION :736
86th EVEN ADDITION :744


83th ODD ADDITION :819
84th EVEN ADDITION :828


81th ODD ADDITION :900
82th EVEN ADDITION :910


79th ODD ADDITION :979
80th EVEN ADDITION :990
```

```
79th ODD ADDITION :979
80th EVEN ADDITION :990

77th ODD ADDITION :1056

78th EVEN ADDITION :1068


75th ODD ADDITION :1131
76th EVEN ADDITION :1144


73th ODD ADDITION :1204
74th EVEN ADDITION :1218


71th ODD ADDITION :1275
72th EVEN ADDITION :1290


69th ODD ADDITION :1344
70th EVEN ADDITION :1360


67th ODD ADDITION :1411
68th EVEN ADDITION :1428


66th EVEN ADDITION :1494
65th ODD ADDITION :1476

64th EVEN ADDITION :1558

63th ODD ADDITION :1539


61th ODD ADDITION :1600
62th EVEN ADDITION :1620


59th ODD ADDITION :1659
60th EVEN ADDITION :1680

57th ODD ADDITION :1716

58th EVEN ADDITION :1738
```

```
24th EVEN ADDITION :2418
23th ODD ADDITION :2379


22th EVEN ADDITION :2440
21th ODD ADDITION :2400


19th ODD ADDITION :2419
20th EVEN ADDITION :2460


17th ODD ADDITION :2436
18th EVEN ADDITION :2478


15th ODD ADDITION :2451
16th EVEN ADDITION :2494


13th ODD ADDITION :2464
14th EVEN ADDITION :2508


12th EVEN ADDITION :2520
11th ODD ADDITION :2475


10th EVEN ADDITION :2530
9th ODD ADDITION :2484


8th EVEN ADDITION :2538
7th ODD ADDITION :2491


6th EVEN ADDITION :2544
5th ODD ADDITION :2496


4th EVEN ADDITION :2548
3th ODD ADDITION :2499


1th ODD ADDITION :2500
2th EVEN ADDITION :2550

MAIN THREAD EXITED
CHILD 1 EXITED
```

Command Prompt

```
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C:\Users\anant>cd JAVA A

C:\Users\anant\JAVA A>javac Mainthread3.java

C:\Users\anant\JAVA A>java Mainthread3
SQUARE OF: 2 :4
SQUARE OF: 4 :16
CUBE OF: 5 :125
SQUARE OF: 4 :16
CUBE OF: 3 :27
CUBE OF: 1 :1
SQUARE OF: 0 :0
SQUARE OF: 6 :36
SQUARE OF: 6 :36
SQUARE OF: 8 :64

C:\Users\anant\JAVA A>
```