

Wk11extr1 - Notepad

```
File Edit Format View Help
class bms implements Runnable{
Thread t1;
int sumofodd;
bms(){
t1 = new Thread(this,"bms");
}
public void run(){
try{
for(int i=0; i<=100; i++){
if(i%2!=0){
sumofodd+=i;
System.out.println("sum of odd numbers (till "+i+") = "+sumofodd);
Thread.sleep(2000);
}
}
}
catch(InterruptedException e){
System.out.println("Interrupted\n");
}
System.out.println("Exiting: ");
}
}
class Wk11extr1{
public static void main(String args[]){
int sumofeven=0;
bms obj1 = new bms();
obj1.t1.start();
try{
for(int i=0; i<=100; i++){
if(i%2==0){
sumofeven += i;
System.out.println("sum of even numbers (till "+i+") = "+sumofeven);
Thread.sleep(2000);
}
}
}
catch(InterruptedException e){
System.out.println("Interrupted\n");
}
System.out.println("Exiting... ");
}
}
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```

C:\Users\AKSHAY RASTOGI\Desktop\java prog>javac Wk11extr1.java

C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk11extr1

sum of even numbers (till 0) = 0
sum of odd numbers (till 1) = 1
sum of even numbers (till 2) = 2
sum of odd numbers (till 3) = 4
sum of even numbers (till 4) = 6
sum of odd numbers (till 5) = 9
sum of odd numbers (till 7) = 16
sum of even numbers (till 6) = 12
sum of odd numbers (till 9) = 25
sum of even numbers (till 8) = 20
sum of even numbers (till 10) = 30
sum of odd numbers (till 11) = 36
sum of odd numbers (till 13) = 49
sum of even numbers (till 12) = 42
sum of even numbers (till 14) = 56
sum of odd numbers (till 15) = 64
sum of even numbers (till 16) = 72
sum of odd numbers (till 17) = 81
sum of even numbers (till 18) = 90
sum of odd numbers (till 19) = 100
sum of even numbers (till 20) = 110
sum of odd numbers (till 21) = 121
sum of even numbers (till 22) = 132
sum of odd numbers (till 23) = 144
sum of even numbers (till 24) = 156
sum of odd numbers (till 25) = 169
sum of even numbers (till 26) = 182
sum of odd numbers (till 27) = 196
sum of even numbers (till 28) = 210
sum of odd numbers (till 29) = 225
sum of even numbers (till 30) = 240
sum of odd numbers (till 31) = 256
sum of even numbers (till 32) = 272
sum of odd numbers (till 33) = 289
sum of even numbers (till 34) = 306
sum of odd numbers (till 35) = 324
sum of even numbers (till 36) = 342
sum of odd numbers (till 37) = 361
sum of even numbers (till 38) = 380
sum of odd numbers (till 39) = 400
sum of even numbers (till 40) = 420
sum of odd numbers (till 41) = 441
sum of even numbers (till 42) = 462
sum of odd numbers (till 43) = 484
sum of odd numbers (till 45) = 529
sum of even numbers (till 44) = 506
sum of odd numbers (till 47) = 576

sum of even numbers (till 44) = 506
sum of odd numbers (till 47) = 576
sum of even numbers (till 46) = 552
sum of even numbers (till 48) = 600
sum of odd numbers (till 49) = 625
sum of even numbers (till 50) = 650
sum of odd numbers (till 51) = 676
sum of even numbers (till 52) = 702
sum of odd numbers (till 53) = 729
sum of even numbers (till 54) = 756
sum of odd numbers (till 55) = 784
sum of even numbers (till 56) = 812
sum of odd numbers (till 57) = 841
sum of even numbers (till 58) = 870
sum of odd numbers (till 59) = 900
sum of even numbers (till 60) = 930
sum of odd numbers (till 61) = 961
sum of odd numbers (till 63) = 1024
sum of even numbers (till 62) = 992
sum of odd numbers (till 65) = 1089
sum of even numbers (till 64) = 1056
sum of even numbers (till 66) = 1122
sum of odd numbers (till 67) = 1156
sum of odd numbers (till 69) = 1225
sum of even numbers (till 68) = 1190
sum of even numbers (till 70) = 1260
sum of odd numbers (till 71) = 1296
sum of odd numbers (till 73) = 1369
sum of even numbers (till 72) = 1332
sum of even numbers (till 74) = 1406
sum of odd numbers (till 75) = 1444
sum of odd numbers (till 77) = 1521
sum of even numbers (till 76) = 1482
sum of odd numbers (till 79) = 1600
sum of even numbers (till 78) = 1560
sum of odd numbers (till 81) = 1681
sum of even numbers (till 80) = 1640
sum of even numbers (till 82) = 1722
sum of odd numbers (till 83) = 1764
sum of even numbers (till 84) = 1806
sum of odd numbers (till 85) = 1849
sum of odd numbers (till 87) = 1936
sum of even numbers (till 86) = 1892
sum of odd numbers (till 89) = 2025
sum of even numbers (till 88) = 1980
sum of even numbers (till 90) = 2070
sum of odd numbers (till 91) = 2116
sum of even numbers (till 92) = 2162
sum of odd numbers (till 93) = 2209
sum of even numbers (till 94) = 2256

```
sum of even numbers (till 58) = 870
sum of odd numbers (till 59) = 900
sum of even numbers (till 60) = 930
sum of odd numbers (till 61) = 961
sum of odd numbers (till 63) = 1024
sum of even numbers (till 62) = 992
sum of odd numbers (till 65) = 1089
sum of even numbers (till 64) = 1056
sum of even numbers (till 66) = 1122
sum of odd numbers (till 67) = 1156
sum of odd numbers (till 69) = 1225
sum of even numbers (till 68) = 1190
sum of even numbers (till 70) = 1260
sum of odd numbers (till 71) = 1296
sum of odd numbers (till 73) = 1369
sum of even numbers (till 72) = 1332
sum of even numbers (till 74) = 1406
sum of odd numbers (till 75) = 1444
sum of odd numbers (till 77) = 1521
sum of even numbers (till 76) = 1482
sum of odd numbers (till 79) = 1600
sum of even numbers (till 78) = 1560
sum of odd numbers (till 81) = 1681
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sum of even numbers (till 90) = 2070
sum of odd numbers (till 91) = 2116
sum of even numbers (till 92) = 2162
sum of odd numbers (till 93) = 2209
sum of even numbers (till 94) = 2256
sum of odd numbers (till 95) = 2304
sum of even numbers (till 96) = 2352
sum of odd numbers (till 97) = 2401
sum of even numbers (till 98) = 2450
sum of odd numbers (till 99) = 2500
sum of even numbers (till 100) = 2550
```

Exiting:

Exiting...

Week 11 (Extra Program)

1) class bus implements Runnable {

~~Thread~~ t1;

int sumofodd;

bus() {

t1 = new ~~Thread~~ Thread(this, "bus");

}

public void run() {

try {

for (int i = 0; i <= 100; i++) {

if (i % 2 != 0) {

sumofodd += i;

System.out.println("Sum of odd numbers (till " + i + ") = " + sumofodd);

Thread.sleep(2000);

}

}

}

catch (InterruptedException e) {

System.out.println("Interrupted\n");

}

System.out.println("Exiting : ");

}

}

class Wk11extra1 {

public static void main (String args []) {

int sumofeven = 0;

bus obj1 = new ~~bus~~ bus();

obj1.t1.start();

try {

for (int i = 0; i <= 100; i++) {

```
if (i % 2 == 0) {  
    sumfeven += i;  
    System.out.println ("sum of even numbers (till " + i + ") = " + sumfeven);  
    Thread.sleep(2000);  
}  
}  
}  
  
catch (InterruptedException e) {  
    System.out.println ("Interrupted\n");  
    System.out.println ("Exiting...");  
}  
}
```

(for odd)

Wk11extr2 - Notepad

```
File Edit Format View Help
import java.util.Random;
class Wk11 implements Runnable{
int n;
Thread t;
int time,m;
Random r=new Random();

int giveno(){
m=r.nextInt(10);
System.out.println("\nRandom number:"+m+"\n");
return m;
}

Wk11(int due,int n1){
t=new Thread(this,"3Threads");
time=due;
n=n1;
System.out.println("Threadt:"+t);
}

public void run(){
try{
if(n==1)
System.out.println("It's Square:"+ (m*m));
else if(n==2)
System.out.println("It's Cube:"+ (m*m*m));
Thread.sleep(time);
}
catch(InterruptedException e){
System.out.println("Interrupted");
}
}
}

class Wk11extr2{
public static void main(String args[]){
Wk11 a=new Wk11(1000,'n');
Wk11 b=new Wk11(2000,1);
Wk11 c=new Wk11(2000,2);
int temp=a.giveno();
b.m=temp;
c.m=temp;
}
```

Wk11extr2 - Notepad

File Edit Format View Help

```
int giveno(){
m=r.nextInt(10);
System.out.println("\nRandom number:"+m+"\n");
return m;
}

wk11(int due,int n1){
t=new Thread(this,"3Threads");
time=due;
n=n1;
System.out.println("Threadt:"+t);
}

public void run(){
try{
if(n==1)
System.out.println("It's Square:"+ (m*m));
else if(n==2)
System.out.println("It's Cube:"+ (m*m*m));
Thread.sleep(time);
}
catch(InterruptedException e){
System.out.println("Interrupted");
}
}
}

class Wk11extr2{
public static void main(String args[]){
Wk11 a=new Wk11(1000,'n');
Wk11 b=new Wk11(2000,1);
Wk11 c=new Wk11(2000,2);
int temp=a.giveno();
b.m=temp;
c.m=temp;
if(a.m%2==0)
b.t.start();
else
c.t.start();
}
}
```

C:\WINDOWS\system32\cmd.exe

C:\Users\AKSHAY RASTOGI\Desktop\java prog>javac Wk11extr2.java

C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk11extr2

Threadt:Thread[3Threads,5,main]
Threadt:Thread[3Threads,5,main]
Threadt:Thread[3Threads,5,main]

Random number:6

It's Square:36

C:\Users\AKSHAY RASTOGI\Desktop\java prog>javac Wk11extr2.java

C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk11extr2

Threadt:Thread[3Threads,5,main]
Threadt:Thread[3Threads,5,main]
Threadt:Thread[3Threads,5,main]

Random number:0

It's Square:0

C:\Users\AKSHAY RASTOGI\Desktop\java prog>javac Wk11extr2.java

C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk11extr2

Threadt:Thread[3Threads,5,main]
Threadt:Thread[3Threads,5,main]
Threadt:Thread[3Threads,5,main]

Random number:3

It's Cube:27

C:\Users\AKSHAY RASTOGI\Desktop\java prog>_

```
2) import java.util.*;  
class Wk11 implements Runnable {  
    int n1;  
    Thread t;  
    int time, m;  
    Random g = new Random();  
  
    int giveno() {  
        m = g.nextInt(10);  
        System.out.println("A random number : " + m + "\n");  
        return m;  
    }  
}
```

```
Wk11(int due, int n1) {  
    t = new Thread(this, "3Threads");  
    time = due  
    n = n1;  
    System.out.println("Thread : " + t);  
}
```

```

public void run() {
    try {
        if (n == 1)
            System.out.println ("It's Square : " + (n * n));
        else if (n == 2)
            System.out.println ("It's cube : " + (n * n * n));
        Thread.sleep (time);
    } catch (InterruptedException e) {
        System.out.println ("Interrupted");
    }
}

```

```

class Wk11extra2 {
    public static void main (String args []) {
        Wk11 a = new Wk11 (1000, 'n');
        Wk11 b = new Wk11 (2000, 1);
        Wk11 c = new Wk11 (2000, 2);
        int temp = a.given ();
        b.m = temp;
        c.m = temp;
        if (a.m % 2 == 0)
            b.t.start ();
        else
            c.t.start ();
    }
}

```