8/12/2020

WEEK-11
EXTRA PROGRAMS

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1]

```
class NewThread implements Runnable
{ Thread t;
 NewThread()
 {
 t = new Thread (this, "SUM");
 System.out.println ("CT:"+t);
  t.start();
 }
 public void run()
 {
 int sum=0;
 try
 {
 for (int n=1; n<=100; n++)
 {
 if (n%2!=0)
 {
  sum=sum+n;
 }
 else
 Thread.sleep(100);
 }
 System.out.println ("Sum of all odd numbers between 1-100\n"
                                          +sum);
 }
```

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1] catch(InterruptedException ie)

```
{
System.out.println("Odd Thread Interrupted");
}
System.out.println("Odd Thread quitting");
}
}
class Main
{
public static void main(String ss[])
{
int sum = 0;
NewThread n1 = New NewThread();
try
{
for (int n= 1; n<=100; n++)
{
if (n%2==0)
{
sum= sum+n;
}
else
Thread.sleep(700);
}
System.out.println("Sum of all even numbers between 1-100:\n"
+sum);
}
catch (InterruptedException ie)
{
```

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1]

```
System.out.println("Even Main Thread interrupted");
}
System.out.println("Even Main Thread quitting");
}
}
```

2]

```
import java.util.Random;
class Square extends Thread
{
 int x;
 Square(int n)
 {
  x=n;
 }
 public void run()
 {
  int sqr=x*x;
System.out.println("Square of "+x+"="+sqr);
}
}
class Cube extends Thread
{
 int x;
 Cube(int n)
 {
  x=n;
```

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```
}
public void run()
{
int cub = x * x * x;
System.out.println("Cube of " + x + " = " + cub);
}
}
class Number extends Thread
{
public void run()
{
Random rand = new Random();
for (int i = 0; i < 8; i++)
{
int randomInteger = rand.nextInt(100);
System.out.println("Random Integer: " + randomInteger);
if (randomInteger % 2 == 0)
{
System.out.println("Even value");
Square s = new Square(randomInteger);
s.start();
}
else {
System.out.println("odd value");
Cube c = new Cube(randomInteger);
c.start();
}
try{
Thread.sleep(1000);
```

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2]

```
} catch (InterruptedException ex) {
System.out.println(ex);
}
}
}
class main{
public static void main(String args[])
{
Number n= new Number();
n.start();
}
}
```

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