Extra Programs

1.

```
class SumThread implements Runnable{
      String name;
      Thread t;
      SumThread(String n)
      {
            name = n;
            t = new Thread(this, name);
            t.start();
      public void run()
            int sum=0;
            try {
                   for(int i=1;i<=99;i+=2)</pre>
                         sum+=i;
                         Thread. sleep(100);
            } catch (InterruptedException ie) {
                   System.out.println(name+" Interrupted");
            System.out.println("Sum of odd numbers from 1 to 100 is: "+sum);
public class Thread2Main {
      public static void main(String args[])
            int sum=0;
            new SumThread("Odd");
            try {
                   for(int i=2;i<=100;i+=2)</pre>
                         sum+=i;
                         Thread. sleep (100);
            } catch (InterruptedException ie)
                   System.out.println("Main Thread interrupted");
            System.out.println("Sum of even numbers from 0 to 100 is "+sum);
}
```

Output:

```
Sum of even numbers from 0 to 100 is 2550
Sum of odd numbers from 1 to 100 is : 2500
```

Program 2:

```
import java.util.Random;
class MyThread implements Runnable{
      String name;
      Thread t;
      static int num;
      MyThread(String n) {
            name = n;
            t = new Thread(this, name);
            t.start();
      public void run() {
            Random r = new Random();
            try {
            if(name=="one")
                   for(int i=0;i<5;i++)</pre>
                         num = r.nextInt(5);
                         System.out.println("Random number : "+num);
                         Thread. sleep(1000);
            if (name=="two")
                   for(int i=0;i<5;i++) {</pre>
                   Thread. sleep (1000);
                   if (num%2==0)
                   System.out.println(num*num);
            }
            if(name=="three")
                   for (int i=0;i<5;i++) {</pre>
                   Thread. sleep(1000);
                   if(num%2!=0)
                   System.out.println(num*num*num);
            }
      } catch (InterruptedException ie) {
            System.out.println(name+" Interrupted");
            System.out.println(name+" Exited");
public class Thread3Main {
      public static void main(String args[])
      {
            new MyThread("one");
            new MyThread("two");
            new MyThread("three");
}
```

Output:

Random number : 4
16
Random number : 1
1
Random number : 0
0
Random number : 0
0
Random number : 1
1
three Exited
two Exited
one Exited