1. 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.

```
public class week11 extraprogram1 {
    public static void main(String args[]) {
int sum=0;
                sum +=i;
        System.out.println("Main thread Interrupted");
        System.out.println("Main thread exiting. Even Sum = " +sum); }
Thread t;
B() {
System.out.println("Start odd sumation .");
t.start();
public void run() {
int sum=0;
try {
for(int i = 1; i \le 100; i+=2) {
sum +=i;
Thread.sleep(10);
```

```
}
} catch (InterruptedException e) {
System.out.println("B interrupted.");
}
System.out.println("Exiting Odd thread. Sum ="+sum);
}
```

OUTPUT:

```
Start odd sumation .
Exiting Odd thread. Sum =2500
Main thread exiting. Even Sum = 2550
PS C:\java\lab> [
```

2.Develop a multithreaded Java program to create three threads. First thread generates random integer for every second and if the value is even, second thread computes the square of number and prints. If the value is odd, the third thread will print the value of cube of number.

```
class RandomNumberThread extends Thread {
public void run() {
Random random = new Random();
for (int i = 0; i < 10; i++) {
  int randomInteger = random.nextInt(100);
  System.out.println("Random Integer generated : " + randomInteger);
  if((randomInteger%2) == 0) {
    SquareThread sThread = new SquareThread(randomInteger);
    sThread.start();
}
else {
    CubeThread cThread = new CubeThread(randomInteger);
    cThread.start();
}
try {
    Thread.sleep(1000);
}
catch (InterruptedException ex) {</pre>
```

```
int number;
SquareThread(int randomNumbern) {
number = randomNumbern;
int number;
CubeThread(int randomNumber) {
number = randomNumber;
public class week11 extraprogram2 {
rnThread.start();
```

OUTPUT:

Random Integer generated: 70 Square of 70 = 4900Random Integer generated: 43 Cube of 43 = 79507Random Integer generated: 75 Cube of 75 = 421875Random Integer generated: 32 Square of 32 = 1024Random Integer generated: 89 Cube of 89 = 704969Random Integer generated: 82 Square of 82 = 6724Random Integer generated: 30 Square of 30 = 900Random Integer generated: 53 Cube of 53 = 148877Random Integer generated: 61 Cube of 61 = 226981Random Integer generated: 60 Square of 60 = 3600

PS C:\java\lab> ∏