Experiment No: 5

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Program: Implement Program for Multithreading in java.

Code:

```java
class Mythread1 extends Thread {
  public void run() {
    for (int i = 0; i < 10; i++) {
      try {
        System.out.println("Thread 1 running " + (i + 1) + " time");
        this.sleep(1000);
      } catch (Exception e) {
        System.out.println("Error Occured in thread 1");
      }
    }
  }
}

class Mythread2 extends Thread {
  public void run() {
    for (int i = 0; i < 10; i++) {
      try {
        System.out.println("-------------Thread 2 running " + (i + 1) + " time------------");
        this.sleep(2000);
      } catch (Exception e) {
        System.out.println("Error Occured in thread 2");
      }
    }
  }
```

```java
}
public class Multithreading {
    public static void main(String[] args) {
        System.out.println("Name: Aniket Tiwari");
        System.out.println("Roll No: 21143285");
        Mythread1 th1 = new Mythread1();
        Mythread2 th2 = new Mythread2();
        th1.start();
        th2.start();
    }
}
```

Output:

```
Select C:\WINDOWS\system32\cmd.exe

D:\Programming\College Experiments\TY 5 Sem\JAVA PL>javac Multithreading.java

D:\Programming\College Experiments\TY 5 Sem\JAVA PL>java Multithreading
Name: Aniket Tiwari
Roll No: 21143285
------------Thread 2 running 1 time------------
Thread 1 running 1 time
Thread 1 running 2 time
Thread 1 running 3 time
------------Thread 2 running 2 time------------
Thread 1 running 4 time
------------Thread 2 running 3 time------------
Thread 1 running 5 time
Thread 1 running 6 time
------------Thread 2 running 4 time------------
Thread 1 running 7 time
Thread 1 running 8 time
------------Thread 2 running 5 time------------
Thread 1 running 9 time
Thread 1 running 10 time
------------Thread 2 running 6 time------------
------------Thread 2 running 7 time------------
------------Thread 2 running 8 time------------
------------Thread 2 running 9 time------------
------------Thread 2 running 10 time------------
```