

Name: Badal Wanjari

Branch: Computer Technology

Section: B

Roll No. 140

Registration No. 20011045

Subject: Object Oriented Programming Lab

Practical-9

- **Problem Definition:**

Write a program to print the first 10 even and odd numbers simultaneously using thread.

- **Program:**

```
class MyThread1 extends Thread {
    public void run() {
        int count = 1;
        int i=1;
        while (count <= 10) {
            try {
                sleep(100);
                if(i%2==1){
                    System.out.println("ODD - " + i);
                    count++;
                }
                i++;
            }
            catch (InterruptedException e) {
                System.out.println(e);
            }
        }
    }
}

class MyThread2 extends Thread {
    public void run() {
        int count = 1;
        int i=1;
        while (count <= 10) {
            try {
                sleep(100);
                if(i%2==0){
```

```

        System.out.println("EVEN - " + i);
        count++;
    }
    i++;
}
catch (InterruptedException e) {
    System.out.println(e);
}
}
}
}

public class Practical9 {
    public static void main(String[] args) {
        MyThread1 m1 = new MyThread1();
        MyThread2 m2 = new MyThread2();
        System.out.println("Printing first 10 odd and even natural numbers simultaneously : ");
        m1.start();
        m2.start();
    }
}

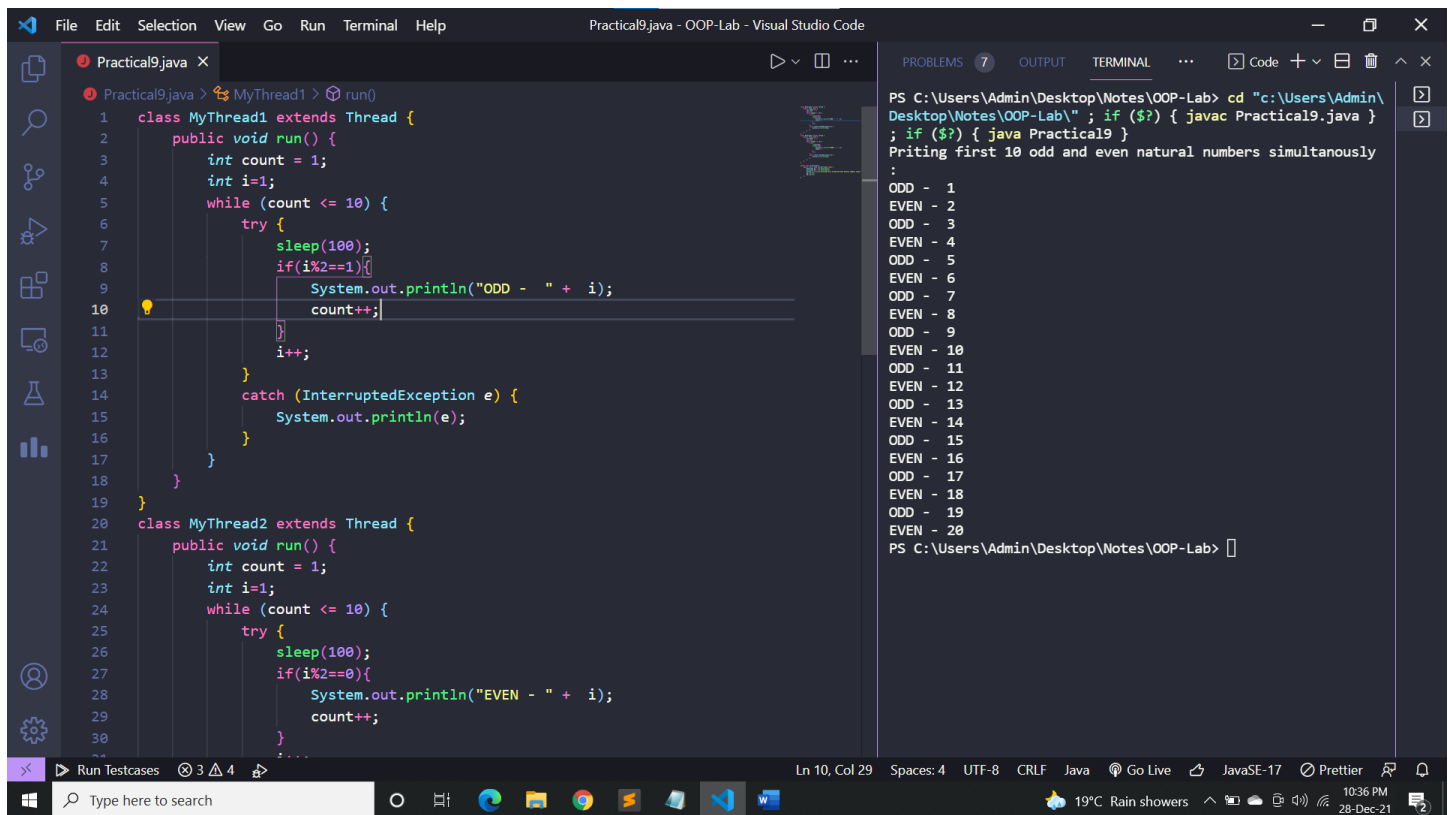
```

- **Output:**

Printing first 10 odd and even natural numbers simultaneously :

ODD - 1
 EVEN - 2
 ODD - 3
 EVEN - 4
 ODD - 5
 EVEN - 6
 ODD - 7
 EVEN - 8
 ODD - 9
 EVEN - 10
 ODD - 11
 EVEN - 12
 ODD - 13
 EVEN - 14
 ODD - 15
 EVEN - 16
 ODD - 17
 EVEN - 18
 ODD - 19
 EVEN - 20

- **Screenshot:**



```
Practical9.java - OOP-Lab - Visual Studio Code

1 class MyThread1 extends Thread {
2     public void run() {
3         int count = 1;
4         int i=1;
5         while (count <= 10) {
6             try {
7                 sleep(100);
8                 if(i%2==1){
9                     System.out.println("ODD - " + i);
10                    count++;
11                }
12                i++;
13            }
14            catch (InterruptedException e) {
15                System.out.println(e);
16            }
17        }
18    }
19 }
20 class MyThread2 extends Thread {
21     public void run() {
22         int count = 1;
23         int i=1;
24         while (count <= 10) {
25             try {
26                 sleep(100);
27                 if(i%2==0){
28                     System.out.println("EVEN - " + i);
29                     count++;
30                 }
31             }
32             catch (InterruptedException e) {
33                 System.out.println(e);
34             }
35         }
36     }
37 }

PS C:\Users\Admin\Desktop\Notes\OOP-Lab> cd "c:\Users\Admin\Desktop\Notes\OOP-Lab\" ; if ($?) { javac Practical9.java } ; if ($?) { java Practical9 }
Priting first 10 odd and even natural numbers simultaneously
:
ODD - 1
EVEN - 2
ODD - 3
EVEN - 4
ODD - 5
EVEN - 6
ODD - 7
EVEN - 8
ODD - 9
EVEN - 10
ODD - 11
EVEN - 12
ODD - 13
EVEN - 14
ODD - 15
EVEN - 16
ODD - 17
EVEN - 18
ODD - 19
EVEN - 20
PS C:\Users\Admin\Desktop\Notes\OOP-Lab>
```

- **Result:**

By studying implementation of concept of thread in Java, I have successfully completed Practical-9.