```
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OOP Practical 18
```

Problem: Athiya was assigned a task to categorize the odd and even numbers from a set of numbers read collectively which were present in a file. Develop the module in such a way that the storage of odd numbers and even numbers takes place in separate files respectively.

Program:

```
package Hare_Krishna;
import java.awt.*;
import java.io.BufferedReader;
import java.io.File;
import java.io.FileReader;
import java.io.FileWriter;
import java.util.Arrays;
public class Prac_18
{
   static public void main(String... s)
       String name;
       File main = new File("number.txt");
       try
       {
           if(main.exists())
```

```
{
        try (FileReader reader = new FileReader(main))
            BufferedReader br = new BufferedReader(reader);
            if((name = br.readLine()) \neq null)
                System.out.println(name);
                method(name);
            }
    }
    else
        main.createNewFile();
catch (Exception exc)
{
    exc.printStackTrace();
```

```
static void method(String number)
       int[] array = new int[number.length()];
       for(int i=0; i<number.length(); i++)</pre>
           array[i] =
Integer.parseInt(String.valueOf(number.charAt(i)));
       int[] even_array = new int[4];
       int[] odd_array = new int[5];
       int e=0;
       int o=0;
       for (int j : array)
           if (j \% 2 = 0)
           {
               even_array[e] = j;
               e++;
           else
           {
```

```
odd_array[o] = j;
        0++;
}
try
    Desktop dex = Desktop.getDesktop();
    File even = new File("even.txt");
    even.createNewFile();
    FileWriter for_even = new FileWriter(even);
    for_even.write(Arrays.toString(even_array));
    dex.open(even);
    for_even.close();
    File odd = new File("odd.txt");
    odd.createNewFile();
    FileWriter for_odd = new FileWriter(odd);
    for_odd.write(Arrays.toString(odd_array));
    dex.open(odd);
    for_odd.close();
```

```
catch (Exception exc)
        exc.printStackTrace();
    System.out.println("All Even Numbers");
    for(int i=0; i<4; i++)
        System.out.print(even_array[i] + " ");
    System.out.println();
    System.out.println("All Odd Numbers");
    for(int i=0; i<5; i++)
        System.out.print(odd_array[i] + " ");
}
```

<u>Output</u>: (Neglect red error lines in 2nd output. They are GUI GTK objects theme errors for **gedit**, the default text editor in my Linux which is **opened by this program**)



