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Subject: Object Oriented Programming Lab

Practical-10

- **Problem Definition:**

  Consider you have 2 files named as odd.txt and even.txt. And one file numbers.txt having first 20 numbers. Write a program to write odd numbers from numbers.txt file into file named as odd.txt and write even numbers from numbers.txt file into file named even.txt

- **Program:**

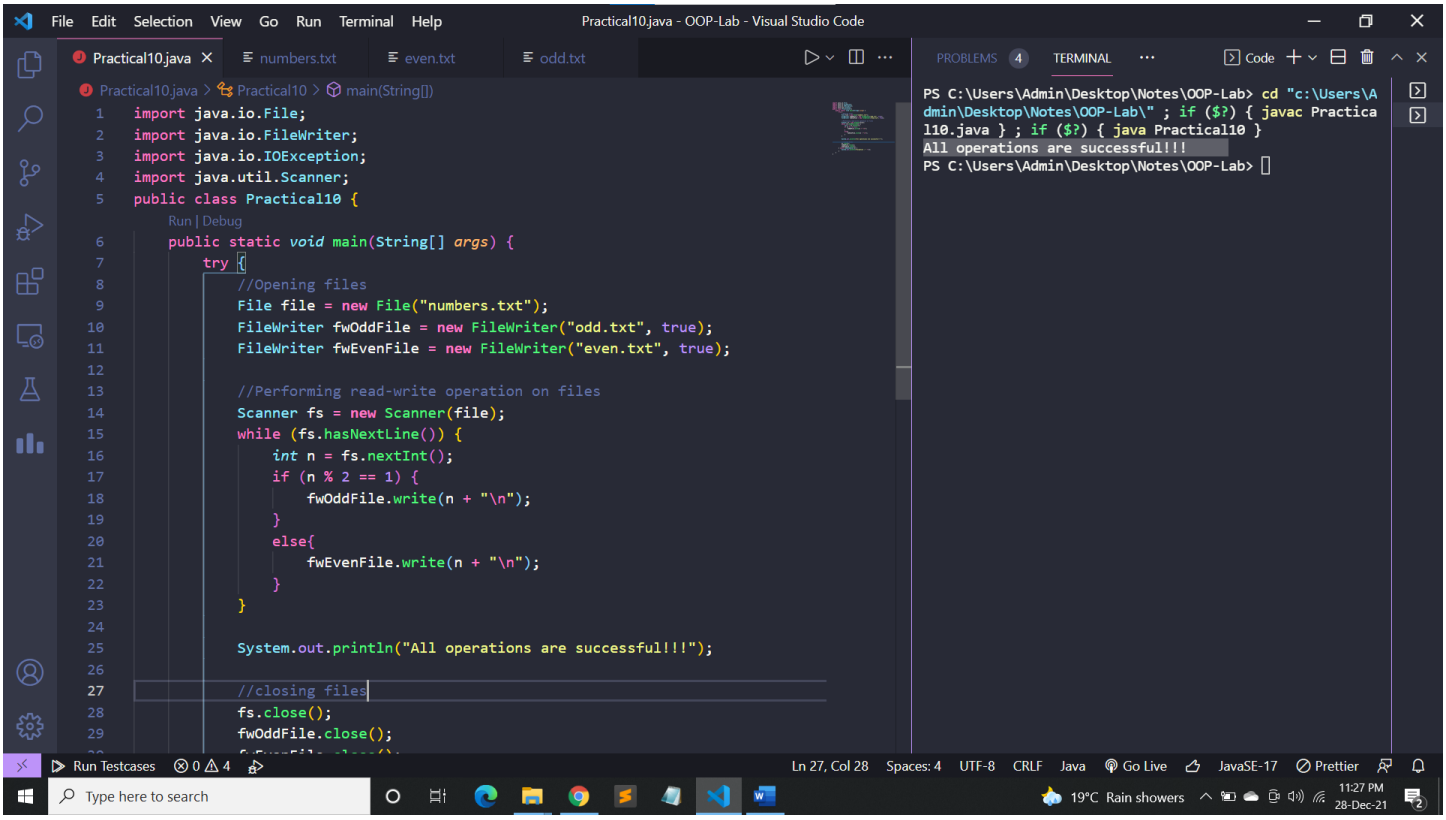
```
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;
import java.util.Scanner;
public class Practical10 {
    public static void main(String[] args) {
        try {
            //Opening files
            File file = new File("numbers.txt");
            FileWriter fwOddFile = new FileWriter("odd.txt", true);
            FileWriter fwEvenFile = new FileWriter("even.txt", true);

            //Performing read-write operation on files
            Scanner fs = new Scanner(file);
            while (fs.hasNextLine()) {
                int n = fs.nextInt();
                if (n % 2 == 1) {
                    fwOddFile.write(n + "\n");
                }
                else{
                    fwEvenFile.write(n + "\n");
                }
            }

            System.out.println("All operations are successful!!!");
```

```
            //closing files
            fs.close();
            fwOddFile.close();
            fwEvenFile.close();
        } catch (Exception e) {
            System.out.println("Exception : " + e);
        }
    }
}
```

- **Output:**

```
All operations are successful!!!
```

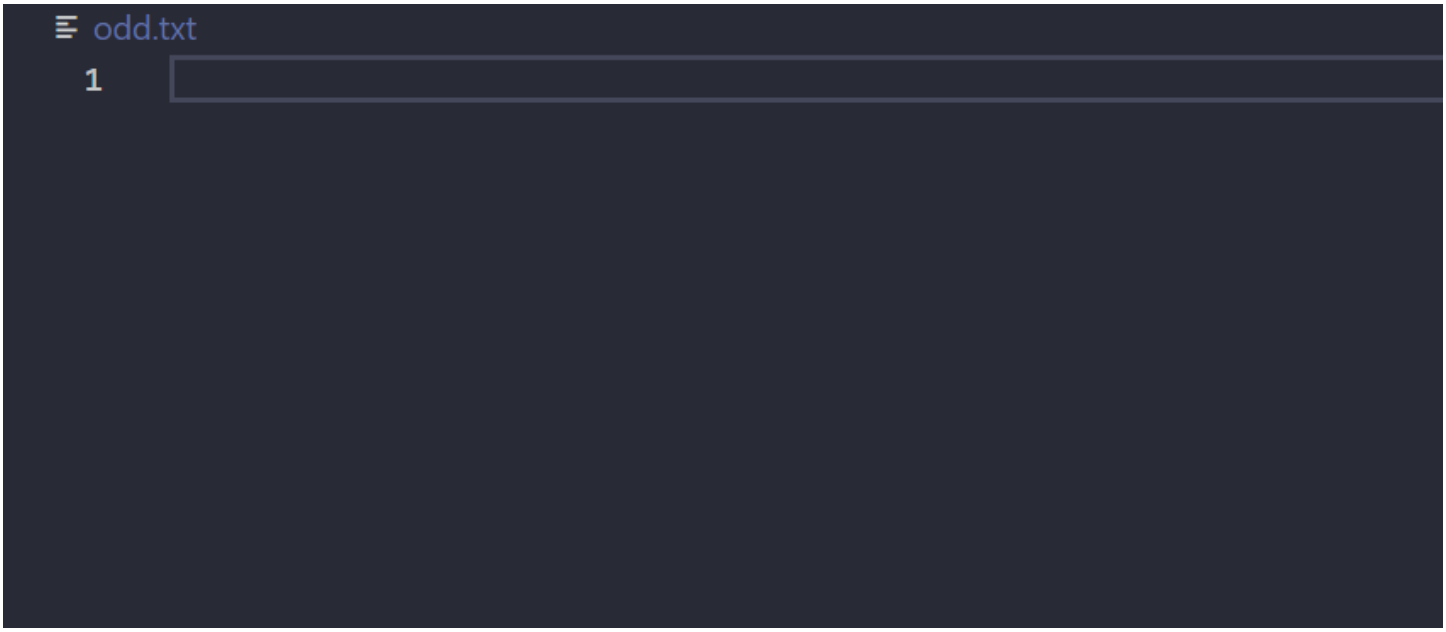
- **Screenshot:**



Files Before running program:

numbers.txt

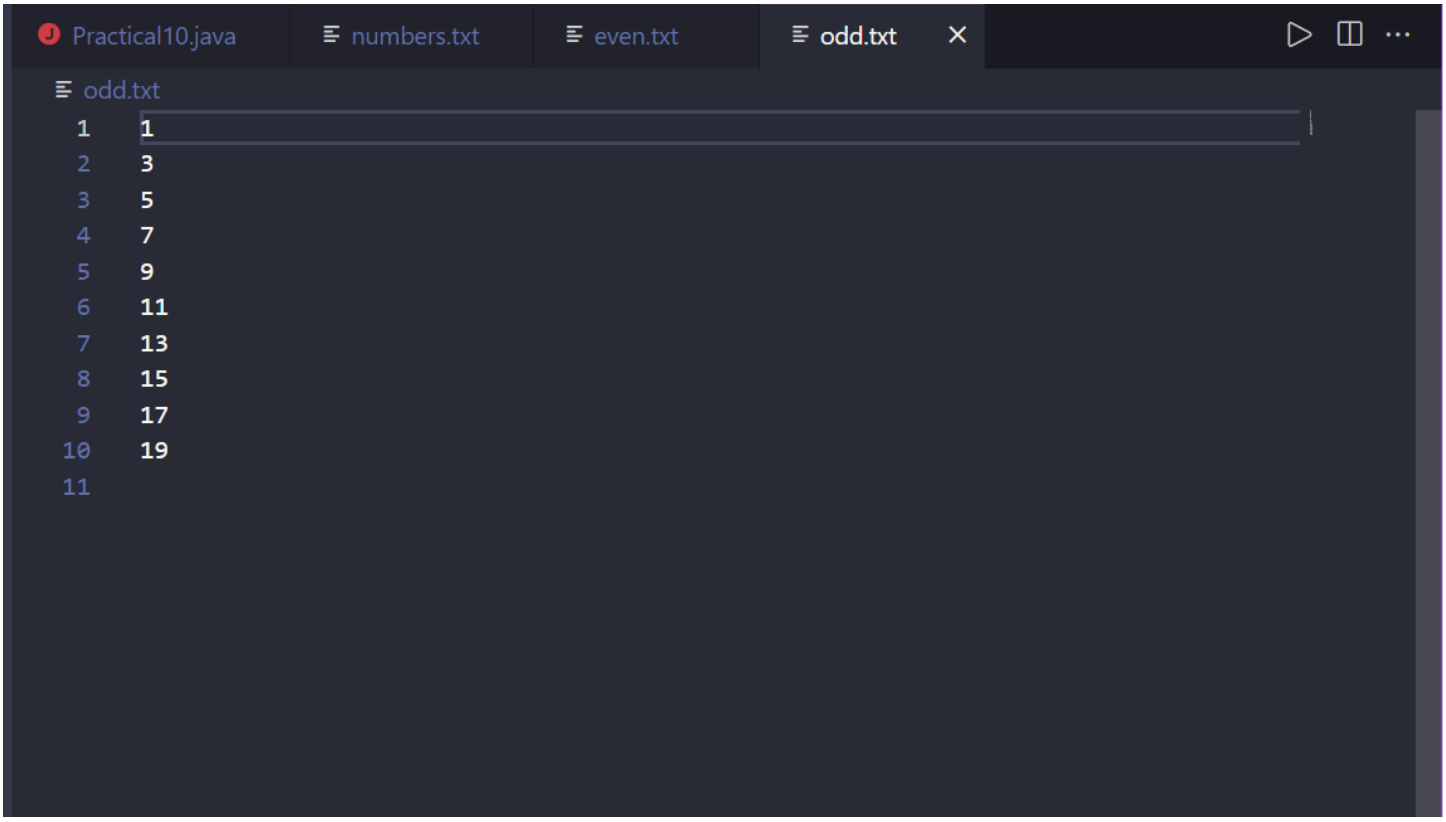
odd.txt



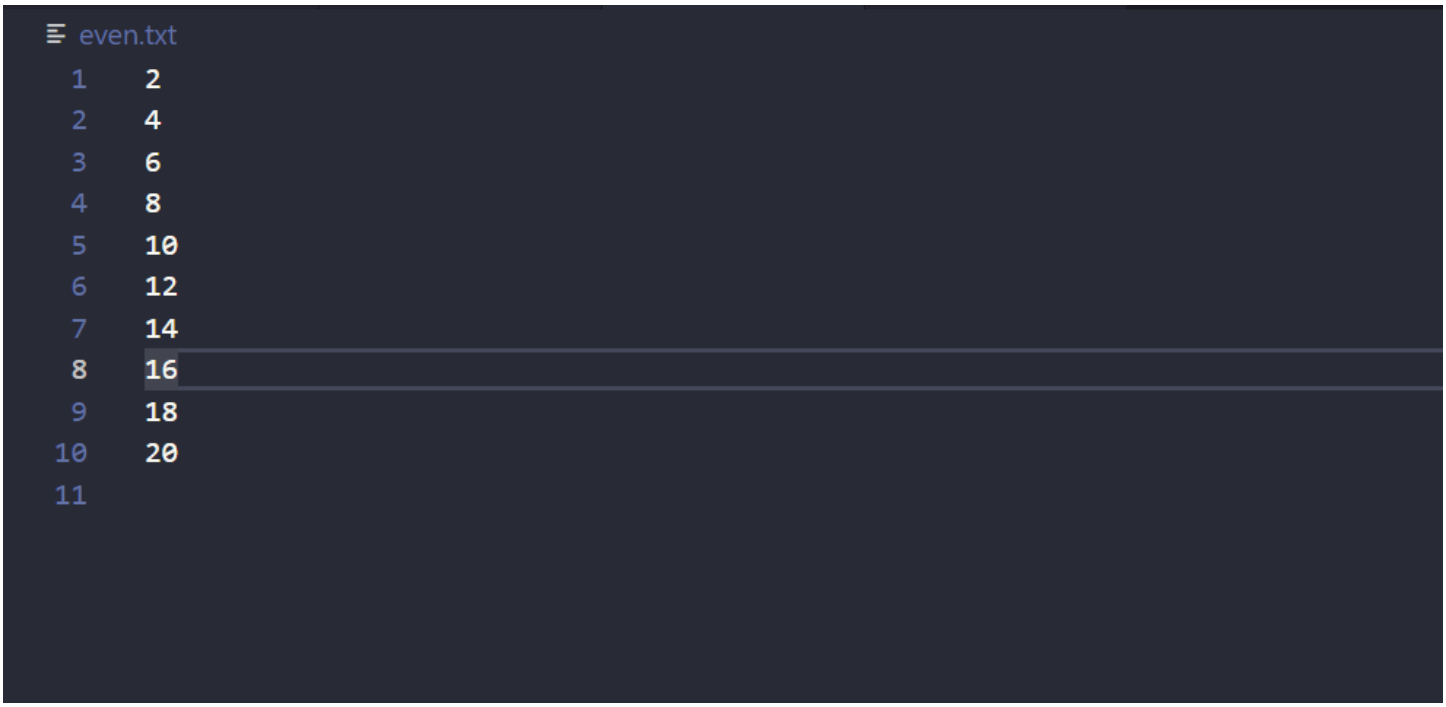
even.txt

Files after running program

odd.txt



even.txt



- **Result:**

  By studying concept of files in Java, I have successfully completed Practical-10.