

# Practice Project: File Handling

**Github Link:** <https://github.com/nayaksofia/FileHandlingProject.git>

Problem statement: As a developer, write Java code to read, write, and append to a file.

## Steps to follow:

Project Name: FileHandling

Package Name: com.filehandlingsofi

1. Write a java program to create a file.  
Class name: CreateFile.java
2. Write a java program to write to a file.  
Class name: WriteToFile.java
3. Write a java program to read a file.  
Class name: ReadFile.java
4. Write a java program to append to a file.  
Class name: AppendFile.java

## Step:1\_1 Creating File

```
package com.filehandlingsofi;
```

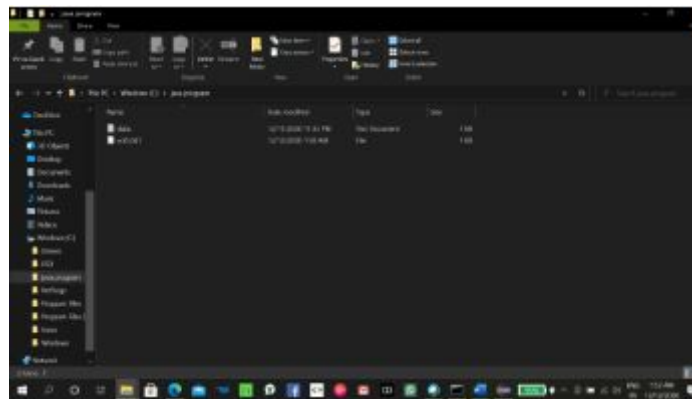
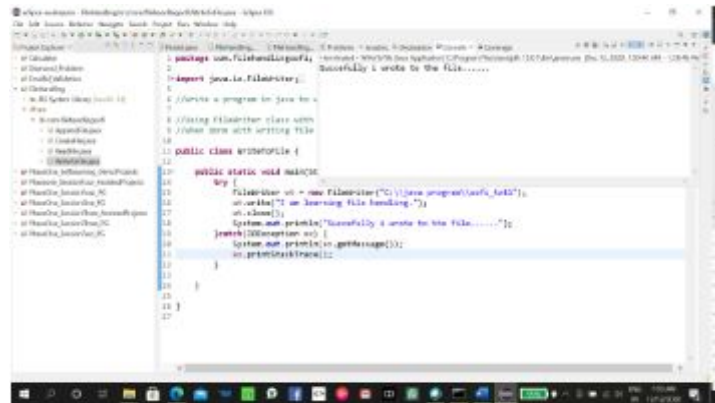
```
import java.io.FileWriter;  
import java.io.IOException;
```

```
//Write a program in java to write to a file
```

```
//Using FileWriter class with its write() method to write some text in the file, that i have created already  
//When done with writing file , I use close() method to close it.
```

```
public class WriteToFile {  
  
    public static void main(String[] args) throws IOException {  
        try {  
            FileWriter wt = new FileWriter("C:\\java program\\sofi_txt1");  
            wt.write("I am learning file handling.");  
            wt.close();  
            System.out.println("Succesfully i wrote to the file.....");  
        } catch (IOException ex) {  
            System.out.println(ex.getMessage());  
            ex.printStackTrace();  
        }  
    }  
}
```

```
}  
}  
OUTPUT:
```



## Step:1\_2 Write to A file

```
package com.filehandlingsofi;
```

```
import java.io.*;  
import java.io.IOException;
```

```
//Write a program in java to write to a file
```

```
//Using FileWriter class with its write() method to write some text in the file, that i have created already  
//When done with writing file , I use close() method to close it.
```

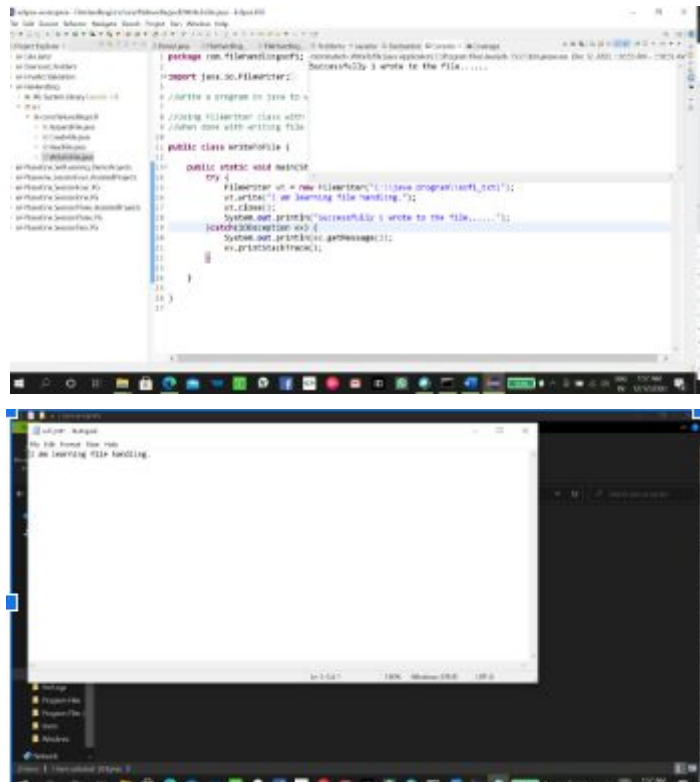
```
public class WriteToFile {  
  
    public static void main(String[] args) throws IOException {  
        try {
```

```

        FileWriter wt = new FileWriter("C:\\java program\\sofi_txt1");
        wt.write("I am learning file handling.");
        wt.close();
        System.out.println("Successfully i wrote to the file.....");
    } catch (IOException ex) {
        System.out.println(ex.getMessage());
        ex.printStackTrace();
    }
}
}

```

## OutPut:



## Step1\_3: Read File

```
package com.filehandlingsofi;
```

```
import java.io.File;
import java.io.FileNotFoundException; //import this class to handle error

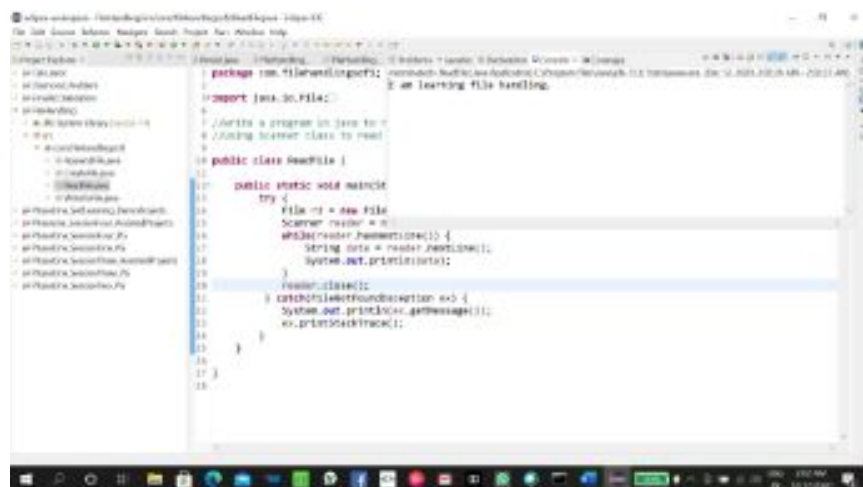
```

```
//Write a program in java to read file
//Using Scanner class to read the context of the text file
```

```
public class ReadFile {

    public static void main(String[] args) throws FileNotFoundException {
        try {
            File rd = new File("C:\\java program\\sofi_txt1");
            Scanner reader = new Scanner(rd);
            while(reader.hasNextLine()) {
                String data = reader.nextLine();
                System.out.println(data);
            }
            reader.close();
        } catch(FileNotFoundException ex) {
            System.out.println(ex.getMessage());
            ex.printStackTrace();
        }
    }
}
```

**OUTPUT:**



## Step1\_4: Append To A File

```
package com.filehandlingsofi;
```

```

import java.io.File;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.OutputStream;

//Writ a program in java to append to a file
//I use FileOutPutStream to append data to a file
//append meaning: to add something to the end of a piece of writing [dictionary]
public class AppendFile {

    public static void main(String[] args) throws IOException {
        //WE can replace catch block with throws keyword
        try {
            OutputStream os = new FileOutputStream (new File("C:\\java program\\sofi_txt1"), true);
            //true defines that the file is ready to append
            String data = "Happy Learning!!!!!!!!!!";
            os.write(data.getBytes(),0,data.length() );
            os.close();
            System.out.println("File appended successfully.....");
        } catch(IOException e) {
            System.out.println(e.getMessage());
            e.printStackTrace();
        }

    }

}

```

## OUTPUT:

The screenshot shows an IDE window with the following content:

- File Explorer:** Shows the project structure with a package named `com.tutorialspoint` containing the `AppendFile.java` file.
- Code Editor:** Displays the source code of `AppendFile.java`, which is identical to the code provided in the previous block.
- Output Console:** Shows the execution output: `File appended successfully.....`

