

Ex.No: 8	Java Application for File Handling
Date:	

Aim:

To create a Java console application to handle the files and find the file properties [Availability, Readable or Writeable or Both, Length of the File].

Algorithm:

- Step 1 Start the Process
- Step 2 Prompt the user to enter the file name with path
- Step 3 Get the file name
 - Step 3.1 Check the file is exists
 - Step 3.2 If file exists then proceed to step 3.3 else proceed to step 3.8
 - Step 3.3 Check the File is Both Readable and Writeable
 - Step 3.4 If yes display file is “Read and Writeable”
 - Step 3.5 Else check is readable if yes display “Read Only” else move to step 3.6
 - Step 3.6 Else check is writeable if yes display “Write Only”
 - Step 3.7 Compute file size and display
 - Step 3.8 If file not existing then display “File Not Found”
- Step 4 Stop the Process

Coding:

UserFileHandler.java

```
package com.raja.oopslab.files;

import java.io.File;
public class UserFileHandler{
    File aFile;
    boolean isReadable = false;
    boolean isWriteable = false;
    boolean isExists = false;
    int length = 0;
public UserFileHandler(String path) {
    aFile = new File(path);
    this.isExists = aFile.exists();
    this.isReadable = aFile.canRead();
    this.isWriteable = aFile.canWrite();
    this.length = (int) aFile.length();
}
public void fileDetails(){
    if(isExists){
        System.out.println("The File "+aFile.getName()+" is Available
at:"+aFile.getParent());
        if(isReadable && isWriteable)
            System.out.println("File is Readable and Writeable");
        else if(isReadable)
            System.out.println("File is Only Readable");
        else if(isWriteable)
            System.out.println("File is Only Writeable");
        System.out.println("Total length of the file is :"+this.length+" bytes");
    }
    else
        System.out.println("File does not exists ");
}
}
```

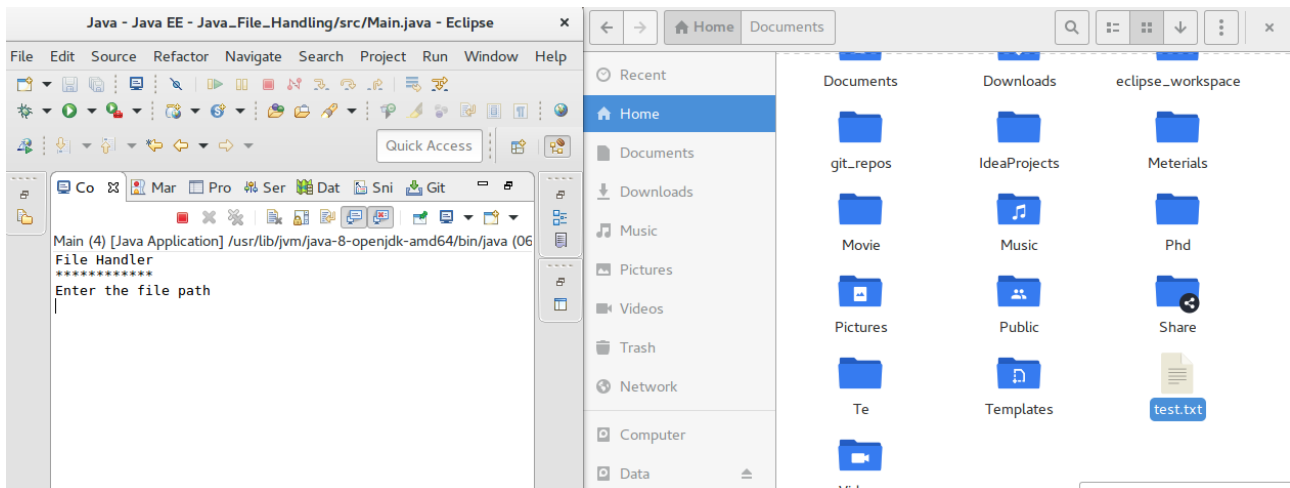
Main.java

```
import java.io.File;
import java.util.Scanner;
import com.raja.oopslab.files.*;
public class Main {

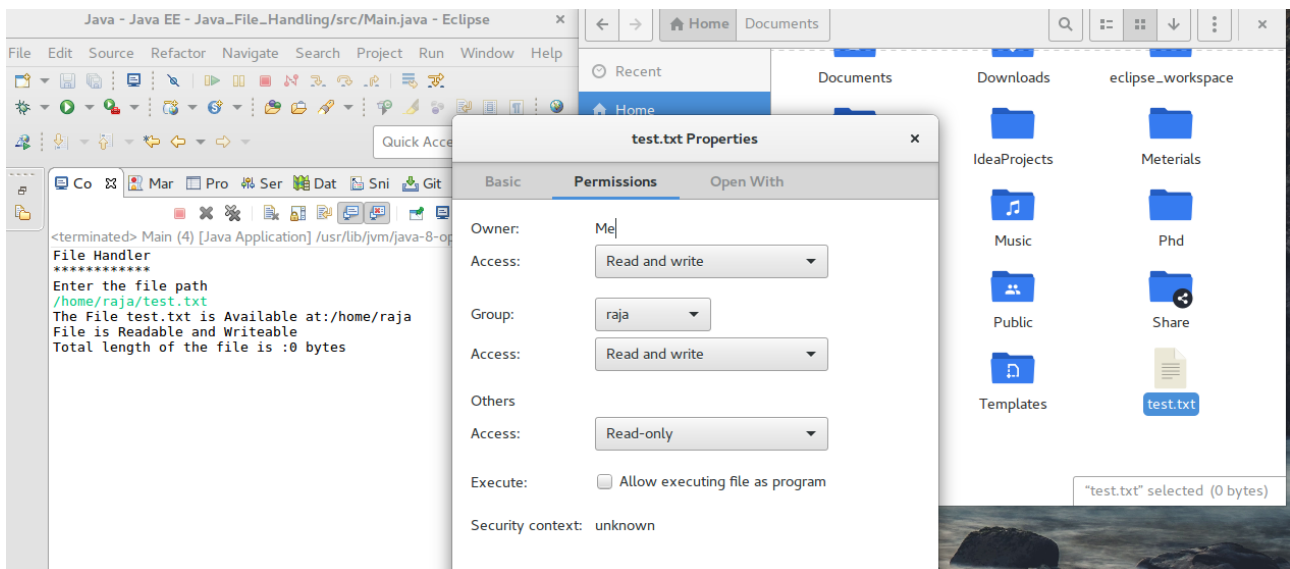
    public static void main(String[] args) {
        String file_path = null;
        Scanner input = new Scanner(System.in);
        System.out.println("File Handler");
        System.out.println("*****");
        System.out.println("Enter the file path");
        file_path = input.next();
        new UserFileHandler(file_path).fileDetails();
    }
}
```

Output:

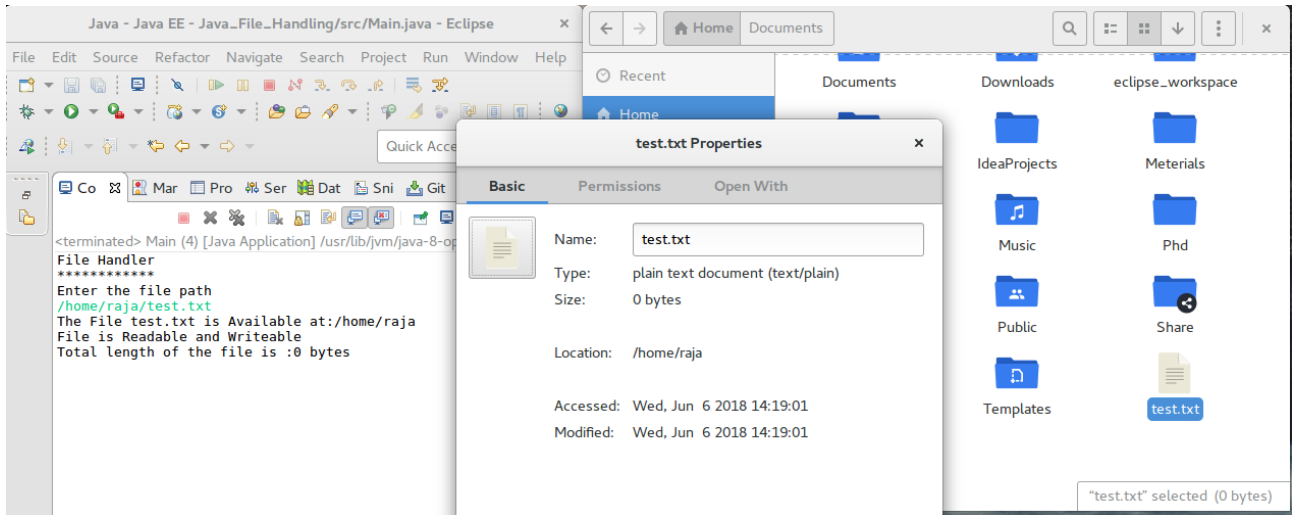
Availability of File:



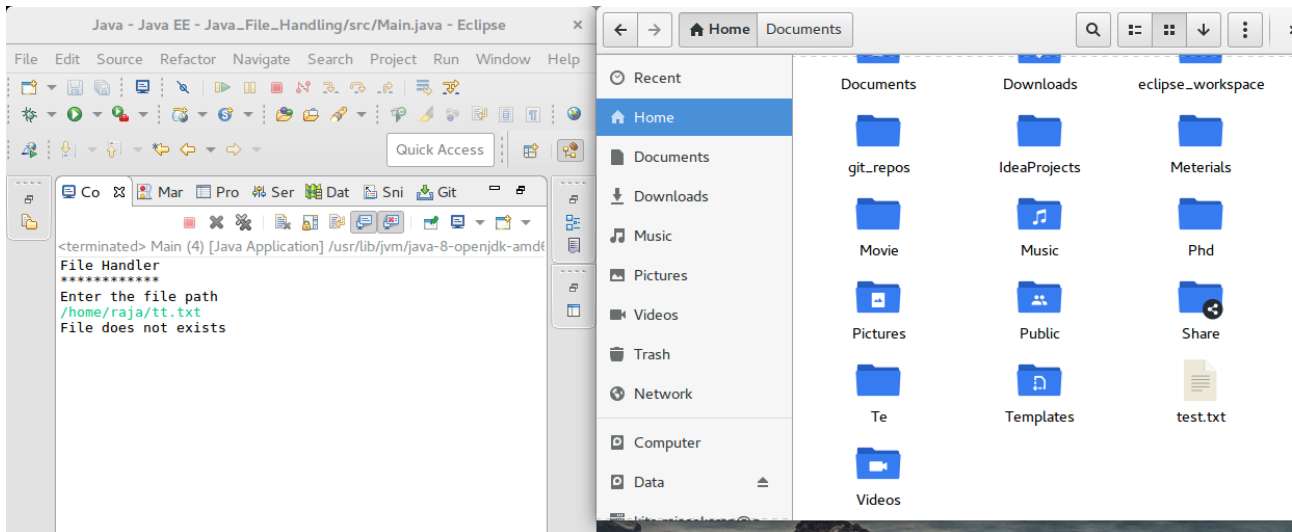
File Read and Writeable:



File Size:



File Not Exists:



Result:

The java console application for handling files was developed and tested successfully.