**Assignment : 3**

**File Handling**

**Statement:** As a developer, write a Java code to read, write, and append to a file

**package** main;

**import** java.awt.\*;

**import** java.io.File;

**import** java.io.FileOutputStream;

**import** java.io.IOException;

**import** java.util.Scanner;

**public** **class** FileHandling {

**public** **static** **void** main(String[] args) {

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println(" Welcome ");

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

**boolean** exit = **false**;

**while** (!exit){

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("1.To Create File \n2.To Update File \n3.To Delete File \n4.To Open File \n5.To Search \n6.Exit");

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.print("Enter your choice number : ");

**int** choice = sc.nextInt();

**switch** (choice) {

**case** 1:

*createFile*();

**break**;

**case** 2:

*updateFile*();

**break**;

**case** 3:

*deleteFile*();

**break**;

**case** 4:

*openFile*();

**break**;

**case** 5:

*searchFile*();

**break**;

**case** 6:

exit = **true**;

System.***out***.println("Exitesd Successfully....!");

**break**;

**default**:

System.***out***.println("Enter Valid Option");

}

}

}

**public** **static** **void** createFile() {

**try** {

System.***out***.print("Enter file name : ");

Scanner fi = **new** Scanner(System.***in***);

String fileName = fi.nextLine();

File file = **new** File(fileName);

**boolean** flag = file.createNewFile();

**if** (flag) {

System.***out***.println("File has been created successfully at the specified location");

System.***out***.println("");

} **else** {

System.***out***.println("File already present at the specified location");

}

} **catch** (IOException e) {

System.***out***.println("Exception Occurred:");

e.printStackTrace();

}

}

**public** **static** **void** updateFile() {

**try** {

Scanner up = **new** Scanner(System.***in***);

System.***out***.print("Enter the file name with specific location: ");

String name = up.nextLine();

FileOutputStream fos = **new** FileOutputStream(name, **true**);

System.***out***.print("Enter file content: ");

String str = up.nextLine() + "\n";

**byte**[] b = str.getBytes();

fos.write(b);

fos.close();

System.***out***.println("The file has been saved on the given path.");

} **catch** (Exception e) {

System.***out***.println("Exception Occurred:");

e.printStackTrace();

}

}

**public** **static** **void** deleteFile() {

**try** {

Scanner dl = **new** Scanner(System.***in***);

System.***out***.print("Enter the file name to delete: ");

String name = dl.nextLine();

System.***out***.println("Path "+name);

File f = **new** File(name);

**if** (f.delete())

{

System.***out***.println("File " + f.getName() + " is deleted");

}

**else** {

System.***out***.println("Delete operation failed");

}

}

**catch**(Exception e) {

e.printStackTrace();

}

}

**public** **static** **void** openFile() {

**try** {

Scanner op = **new** Scanner(System.***in***);

System.***out***.print("Enter the file name to open : ");

String name = op.nextLine();

File file = **new** File(name);

**if** (!Desktop.*isDesktopSupported*())

{

System.***out***.println("not supported");

**return**;

}

Desktop desktop = Desktop.*getDesktop*();

**if** (file.exists())

desktop.open(file);

}

**catch**(Exception e) {

//e.printStackTrace();

}

}

**public** **static** **void** searchFile(){

Scanner sf = **new** Scanner(System.***in***);

System.***out***.print("Enter the file name to Search : ");

String name = sf.nextLine();

File directory = **new** File("C:\\Users\\Amar\\Desktop\\Simplilearn\\Phase1");

String[] flist = directory.list();

**int** flag = 0;

**if** (flist == **null**) {

System.***out***.println("Empty directory.");

}

**else** {

**for** (**int** i = 0; i < flist.length; i++) {

String filename = flist[i];

**if** (filename.equalsIgnoreCase(name)) {

System.***out***.println(filename + " found");

flag = 1;

}

}

}

**if** (flag == 0) {

System.***out***.println("File Not Found");

}

}

}