

**(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)**

## CSA2022 – Advanced JAVA Programming LAB SHEET - 6

**Module 2 – Input Output Operations in Java**

**Operations with Text files**

**Q1**. Write a Java program to perform the following operations with text files.

1. Create a folder, student name as folder name in c drive by passing the folder name at run time using Scanner.
2. Create a file to write an essay “shortnnoteson multithreading”, file name must be “multithread.txt”.
3. Read the content of the file to output console.
4. Copy the content of above file to another file studentname\_multithread\_copy.txt.

**Solution :**

a) Creating folder

**import** java.io.\*;

**import** java.util.Scanner;

**public** **class** CreateFolder

{

**public** **static** **void** main(String arr[])

{

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

System.***out***.println("enter folder name");

String foldername=sc.next();

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

**if**(f.exists()&&f.isDirectory())

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

**else** **if**(f.mkdir()==**true**)

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

**else**

System.***out***.println("cannot be created");

}

}

b) Creating file

**import** java.io.FileWriter;

**import** java.util.Scanner;

**public** **class** Main {

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

String essays = "This is the data in the output file\nThis is the data in the output file\n This is the data in the output file\n";

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

System.***out***.println("Enter file name and folder name");

String filename=sc.next();

String foldername=sc.next();

FileWriter output = **new** FileWriter(foldername+"\\"+filename+".txt");

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

output.write(essays);

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

output.close();

}}

c) Reading File

**import** java.io.BufferedReader;

**import** java.io.File;

**import** java.io.FileReader;

**public** **class** Main {

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

File fileob=**new** File("linus\\multithread.txt");

FileReader fr = **new** FileReader(fileob);

BufferedReader br = **new** BufferedReader(fr);

String line;

**while**((line=br.readLine())!=**null**) {

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

}

br.close();

}}

d) Copying File

//either PrintWriter or BufferWriter

**import** java.io.\*;

**public** **class** Main {

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

File source=**new** File("linus\\multithread.txt");

File target=**new** File("linus\\multithread\_copy.txt");

FileReader fr = **new** FileReader(source);

FileWriter fw = **new** FileWriter(target);

BufferedReader br = **new** BufferedReader(fr);

//BufferedWriter bw = new BufferedWriter(fw);

PrintWriter pw = **new** PrintWriter(fw, **false**);

String line;

**while**((line=br.readLine())!=**null**) {

pw.write(line); //bw.write(line);

pw.println(); //bw.newLine();

}

System.***out***.println("1 file copied");

br.close();

//bw.close();

pw.close();

}

}