

# St Francis Institute of Technology, Mumbai-400 103

Class: SE-ITA/ITB Semester: III; A.Y. 2020-2021

Subject: Java Labs

## Title-8: Java Program to implement IO Streams.

### 1. Aim:

- You have been given the list of the names of the files in your directory. You have to select Java files from them. A file is a Java file if it's name ends with ".java".

### 2. Prerequisite: Knowledge of Input Output Streams in Java.

### 3. Requirements: Personal Computer (PC), Windows Operating System, Net beans 8.0.

### 4. Pre-Experiment Exercise:

#### Theory:

#### a. I/O Streams:

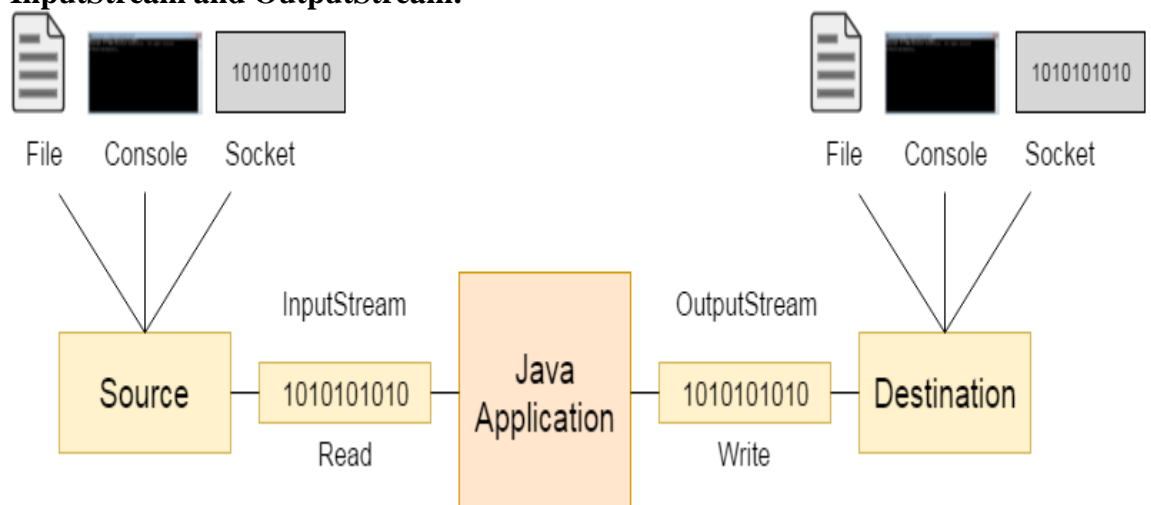
Java uses the concept of a stream to make I/O operation fast. The java.io package contains all the classes required for input and output operations. We can perform **file handling in Java** by Java I/O API. In Java, 3 streams are created for us automatically. All these streams are attached with the console.

1) **System.out:** standard output stream

2) **System.in:** standard input stream

3) **System.err:** standard error stream

#### b. InputStream and OutputStream:



## **5. Laboratory Exercise**

### **A. Procedure**

- i. Open Net beans for Java.
- ii. Open File and Create New Java Project.
- iii. Inside the Java Project rename give name to your Java Class.
- iv. Click on Finish.
- v. Type the Java Code in the opened class.
- vi. Save the code by pressing Ctrl+S.
- vii. Run the code by pressing Shift+F6.

### **B. Program code with comments:**

Write and execute your program code to achieve the given aim and attach it **with your own comments with neat indentation.**

## **6. Post-Experiments Exercise**

### **A. Extended Theory:**

1. Explain various Java File operation methods.

### **B. Results/Observations/Program output:**

Present the program input/output results and comment on the same.

### **C. Questions/Programs:**

1. Write a Java program to read a File using FileReader.
2. Write a Java program to write a File using FileWriter.

### **D. Conclusion:**

1. Write what was performed in the experiment/program.
2. What is the significance of experiment/program?
3. Mention few applications of what was studied.

### **E. References**

1. Balguruswamy, "Programming with java A primer", Fifth edition, Tata McGraw Hill Publication.
2. Let Us Java-Yashwant Kanetkar.
3. Learn to Master JAVA, from Star EDU solutions , by ScriptDemics.
4. Java 8 Programming-Black Book,by-Dreamtech Publications.
5. [www.programmingsimplified.com](http://www.programmingsimplified.com)
6. [www.javatpoint.com](http://www.javatpoint.com)

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