**File Handling in Java**

File Handing in java comes under IO operations. Java IO package java.io classes are specially provided for file handling in java.

# Java I/O Tutorial

**Java I/O** (Input and Output) is used to process the input and produce the output.

Java uses the concept of 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.

## Stream

A stream is a sequence of data.In Java a stream is composed of bytes. It's called a stream because it is like a stream of water that continues to flow.

In java, 3 streams are created for us automatically. All these streams are attached with console.

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

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

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

code to print **output and error** message to the console.

1. System.out.println("simple message");
2. System.err.println("error message");

code to get **input** from console.

1. int i=System.in.read();//returns ASCII code of 1st character
2. System.out.println((char)i);//will print the character

**Types of Stream**

## OutputStream

## InputStream

### OutputStream

Java application uses an output stream to write data to a destination, it may be a file, an array, peripheral device or socket.

### InputStream

Java application uses an input stream to read data from a source, it may be a file, an array, peripheral device or socket.

working of Java OutputStream and InputStream by the figure.

Java IO