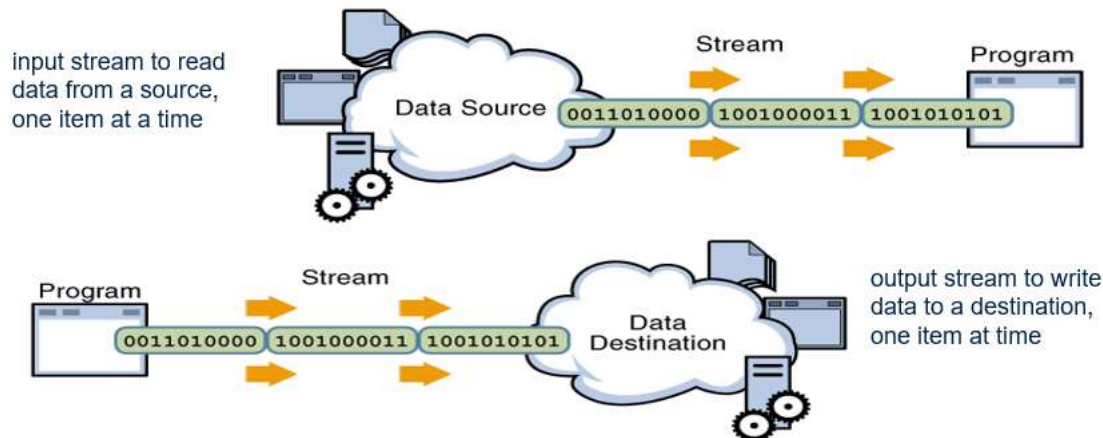


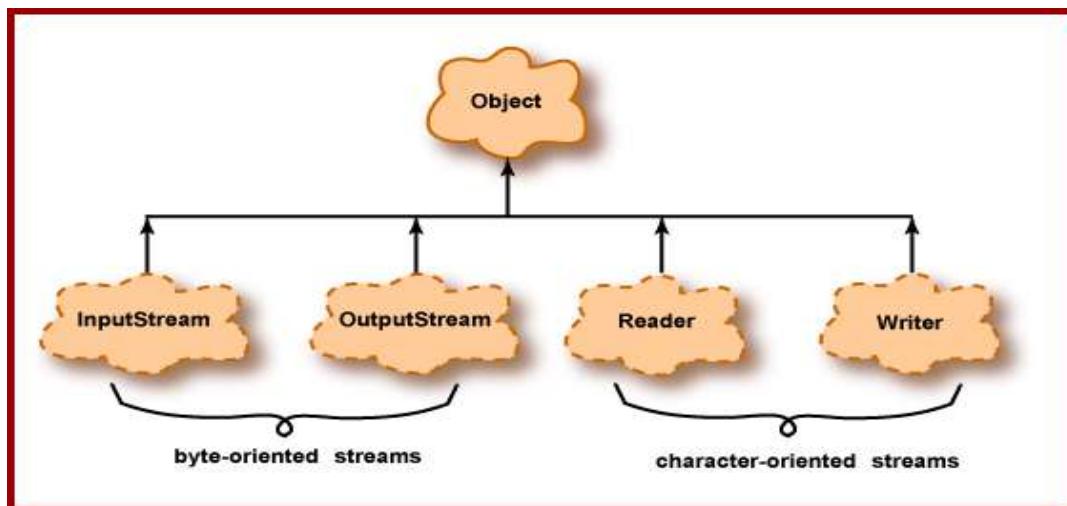
# Contents

## File IO

### I/O streams



### Types of Streams



- Byte Streams: Handle I/O of raw binary data.
- Character Streams: Handle I/O of character data.
- Buffered Streams: Optimize input and output with reduced number of calls to the native API.
- Data Streams: Handle binary I/O of primitive data type and String values.
- Object Streams: Handle binary I/O of objects.
- Scanning & Formatting: Allows program to read and write formatted text.

## Methods of I/O Stream

Methods of Input Stream	Methods of Output Stream
close, read	close, flush, write,

## Predefined Streams

- System.out :refers to the standard output stream
- System.err :refers to standard error stream
- System.in : refers to standard input

## Buffered Streams

```
InputStream = new BufferedReader(new FileReader("input.txt"));  
OutputStream = new BufferedWriter(new FileWriter("output.txt"));
```

## File Class

File class doesn't operate on streams

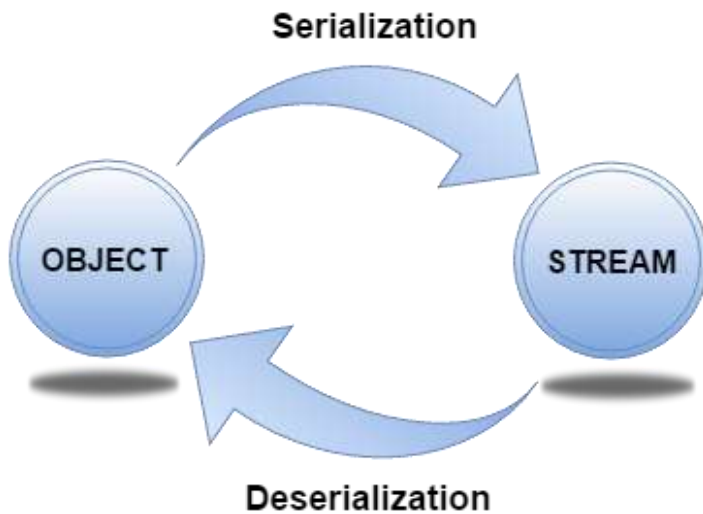
Represents the pathname of a file or directory in the host file system

### Methods of File Class :

- canRead()
- exists()
- isFile()
- isDirectory()
- getAbsolutePath()
- getName()
- getPath()
- getParent()
- length() : returns length of file in bytes as long
- lastModified()
- mkdir()
- list() : obtain listings of directory contents

## Java.io.Serializable

---



- Serialization is a process to read and write objects.
- It provides ability to read or write a whole object to and from a raw byte stream.
- Use object serialization in the following ways:
  - Remote Method Invocation (RMI): Communication between objects via sockets.
  - Lightweight persistence: Archival of an object for use in a later invocation of the same program.