

Java IO Streams

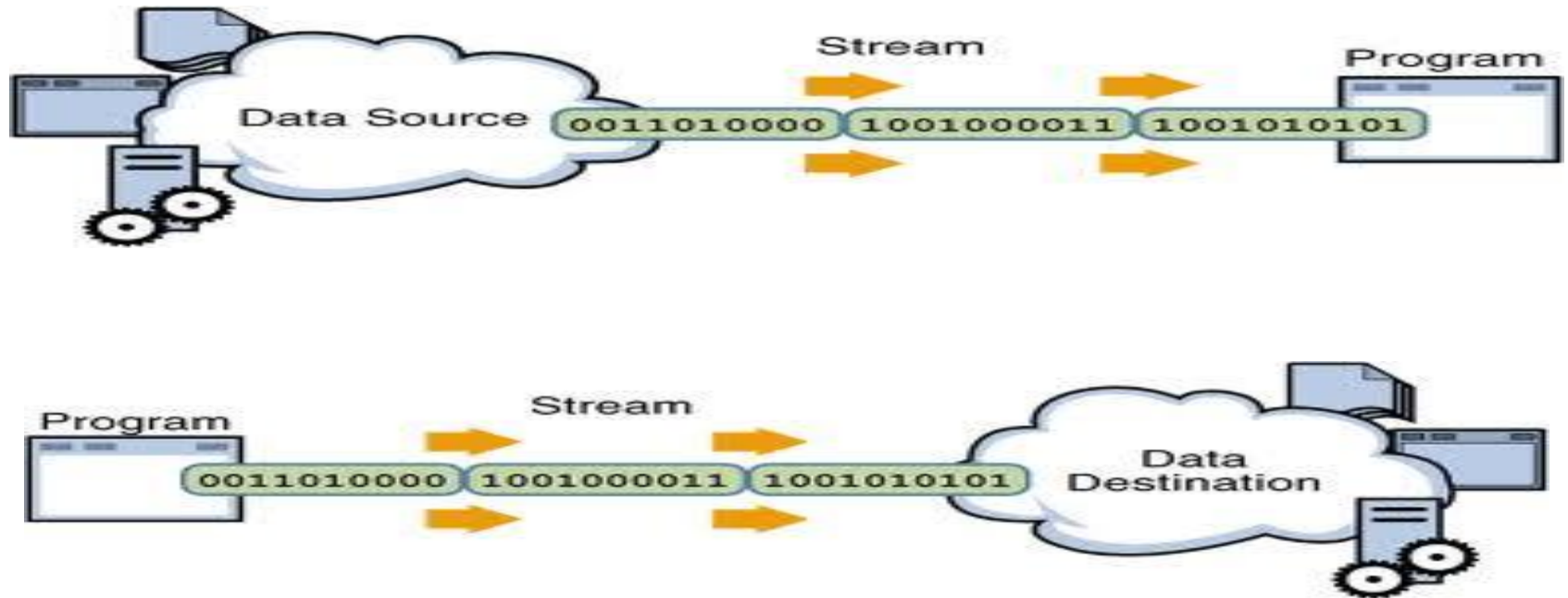


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Presented by Java Consultant

Stream

Flow of information from source to destination



Stream – notion to handle IO



Input / Output Streams

Input stream: a stream that provides input to a program

System.in : is an input stream



Output stream: a stream that accepts output from a program

System.out: is an output stream



A stream connects a program to an I/O object

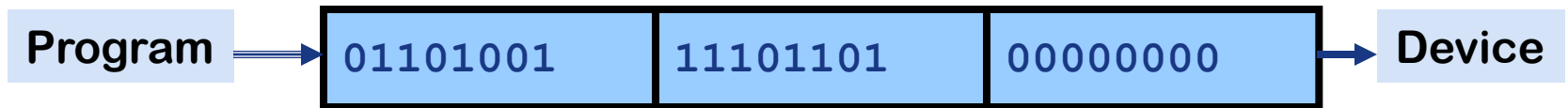
System.out : connects a program to the screen

System.in : connects a program to the keyboard



Types of streams

- **Binary Streams** – contains 8 bit information



- **Character Streams** – contains 16 bit characters



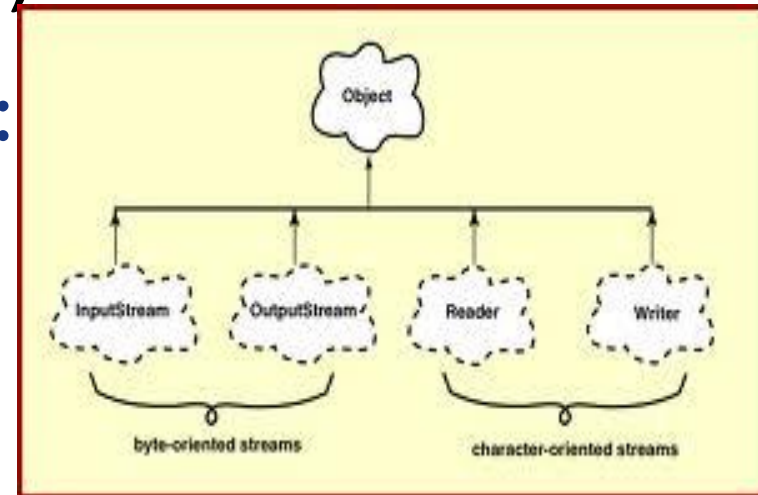
Streams in JAVA are Objects

- 2 types of streams (text / binary) and
- 2 directions (input / output)

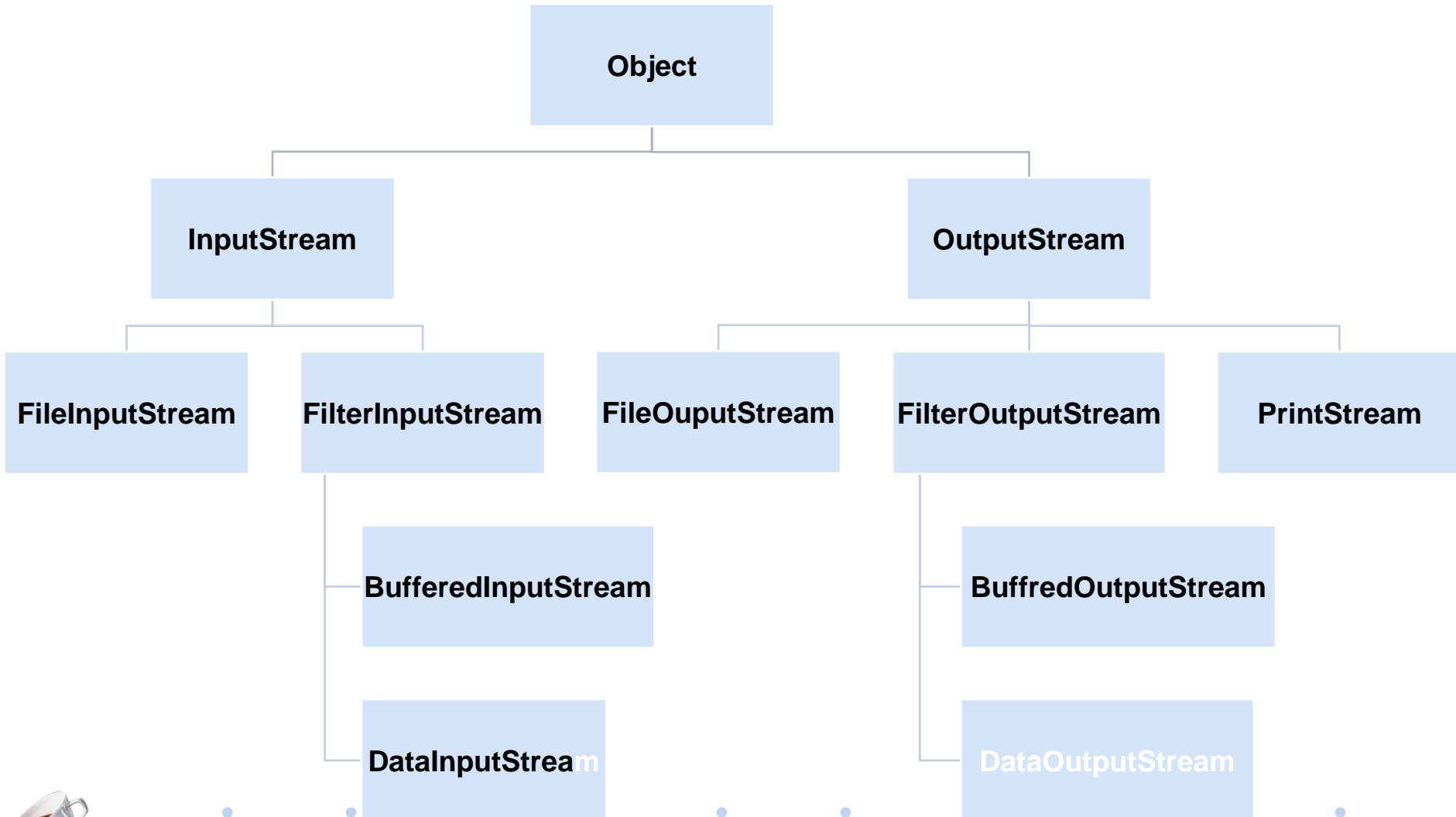
Base-classes dealing with I/O:

1. Reader: text-input
2. Writer : text-output

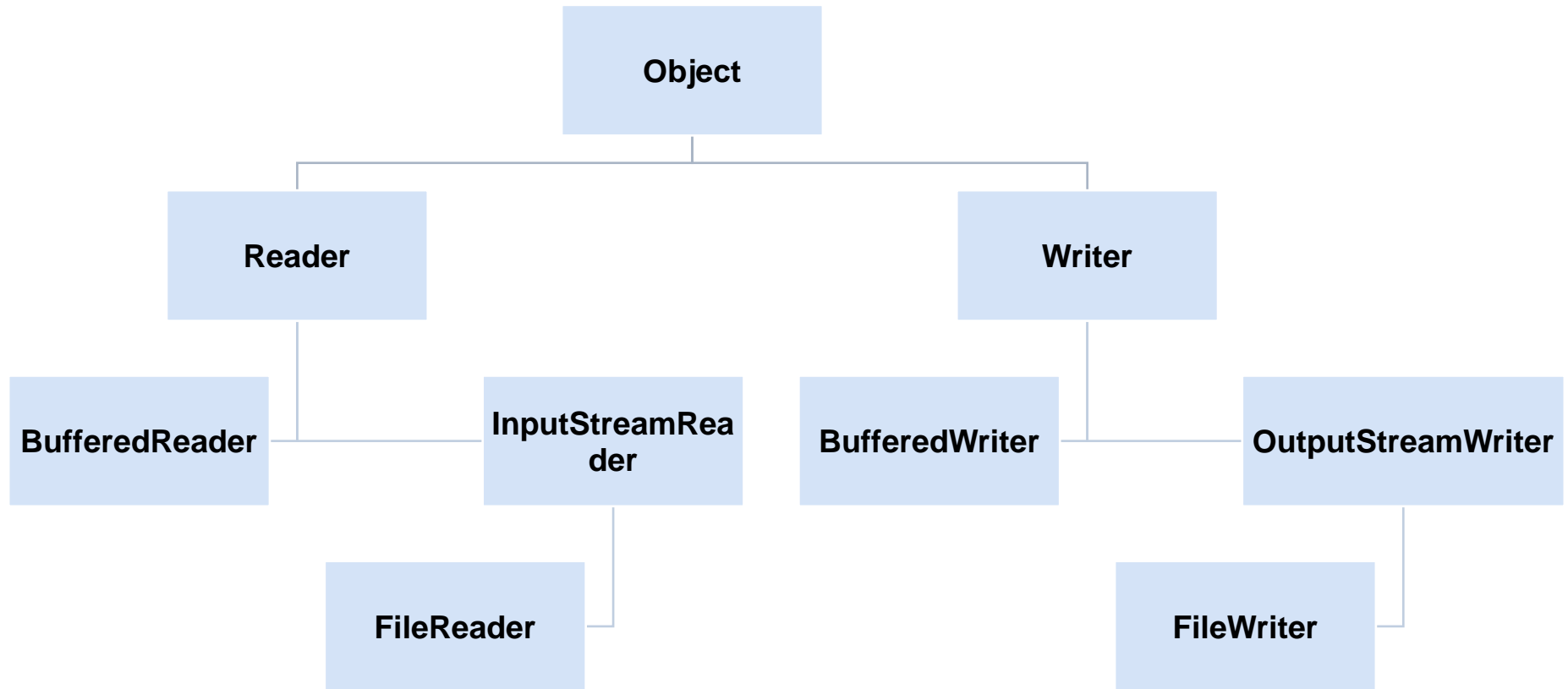
1. InputStream : byte-input
2. OutputStream : byte-output



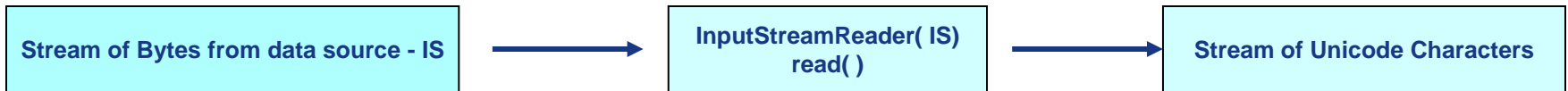
Byte Oriented Streams API



Character Oriented Stream API



Reading data from keyboard

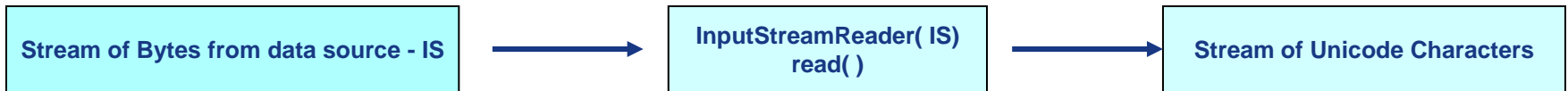


```
BufferedReader br=new BufferedReader( new  
    InputStreamReader(System.in) );
```

```
int number;  
String str=br.readLine();//reading a line of chars  
number = Integer.parseInt(str);
```



Reading data from keyboard



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