

CSCI 2120:

Software Design & Development II

UNIT3: I/O management

io api

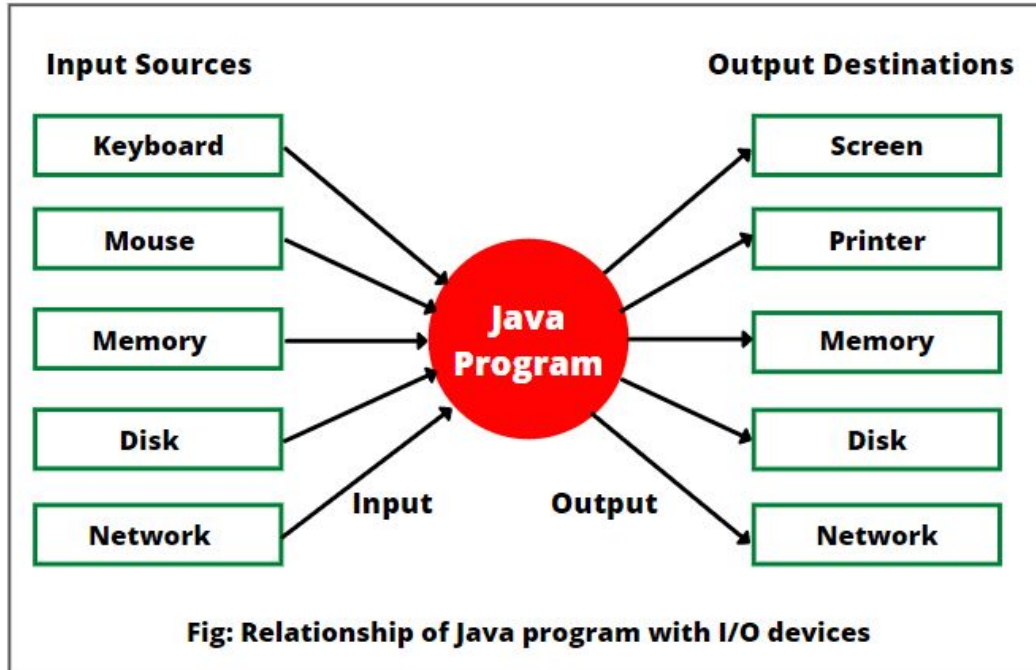
Java I/O Overview

Overview

1. Introduction
2. Java IO Classes & Interfaces

Introduction

Java IO (Input and Output) is a process of reading data from a source and writing data to a destination.



Examples of input sources that read data to a program, are keyboard, mouse, memory, disk, network, or another program.

Examples of output destinations that write data out of a program are screen, printer, memory, disk, network, or another program.

Java IO Classes and Interfaces

Java language introduces a rich set of I/O classes and interfaces in the core API, mostly in the `java.io` package. The I/O classes defined by `java.io` are listed in the below table:

InputStream	OutputStream	Reader	Writer
<ul style="list-style-type: none">• ByteArrayInputStream• FileInputStream• FilterInputStream<ul style="list-style-type: none">◦ BufferedInputStream◦ DataInputStream◦ PushbackInputStream• ObjectInputStream• PipedInputStream• SequenceInputStream	<ul style="list-style-type: none">• ByteArrayOutputStream• FileOutputStream• FilterOutputStream<ul style="list-style-type: none">◦ BufferedOutputStream◦ DataOutputStream◦ PrintStream• ObjectOutputStream• PipedOutputStream	<ul style="list-style-type: none">• BufferedReader<ul style="list-style-type: none">◦ LineNumberReader• CharArrayReader• FilterReader<ul style="list-style-type: none">◦ PushbackReader• InputStreamReader<ul style="list-style-type: none">◦ FileReader• PipedReader• StringReader	<ul style="list-style-type: none">• BufferedWriter• CharArrayWriter• FilterWriter• OutputStreamWriter<ul style="list-style-type: none">◦ FileWriter• PipedWriter• PrintWriter• StringWriter

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Console StreamTokenizer	File FileDescriptor FilePermission RandomAccessFile	ObjectStreamClass ObjectStreamField SerializablePermission
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stream utilities

file utilities

serialization utilities

Java IO Classes and Interfaces

The interfaces defined by `java.io` are listed below:

Closeable DataInput DataOutput Externalizable	FileFilter FilenameFilter Flushable ObjectInputValidation	ObjectOutput ObjectStreamConstants ObjectInput Serializable
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END

Java IO Classes and Interfaces

