

The line `import java.io.*;` in Java is an **import statement** that brings all classes from the `java.io` package into your program. Here's a detailed explanation:

What Does `java.io.*` Mean?

- `java.io` is a package in the Java Standard Library that contains classes and interfaces for input and output (I/O) operations.
- The `*` symbol is a wildcard that means "**all classes**" in the `java.io` package are being imported.

Classes and Interfaces in `java.io`

The `java.io` package contains various classes for handling file I/O, data streams, character streams, and more. Some of the most commonly used classes/interfaces include:

1. **File Handling Classes:**

- `File`: Represents files and directories.
- `FileReader`: Reads character files.
- `FileWriter`: Writes characters to files.
- `BufferedReader`: Reads text from a character-based input stream, with buffering to improve performance.
- `BufferedWriter`: Writes text to a character-based output stream, with buffering.

1. **Streams:**

• **Byte Streams:**

- `InputStream`, `OutputStream`: Abstract classes for reading and writing bytes.
- `FileInputStream`, `FileOutputStream`: Used to read and write byte data to and from files.

• **Character Streams:**

- `Reader`, `Writer`: Abstract classes for reading and writing characters.
- `FileReader`, `FileWriter`: Used to read and write character data to and from files.

1. **Other Classes:**

- `PrintWriter`: Simplified output stream for writing formatted text.
- `ObjectInputStream`, `ObjectOutputStream`: For reading and writing Java objects.