## code cademy

# Input and Output

#### Scanner class

The Scanner class is used to read user input in a Java program. It requires declaration within a program before a user of the program is prompted to input values.

#### **IOExceptions**

IOException s refer to any errors that a program may encounter that are related to the input or output of a Java program.

#### **Compiling Java Programs**

Java programs must first be compiled into bytes, and only then can they be run using the terminal or command prompt.

#### **FileInputStream**

In Java, FileInputStream is used to read data from a file into the program.

#### **FileOutputStream**

In Java, FileOutputStream is used to output data from a program into a file on your computer.

### System.out

In order to print output using a Java program, a developer can use the following three commands:

- System.out.print(): prints in the same line a when a program is running
- System.out.println(): prints output in a new line

• System.out.printf(): prints formatted string. It allows for the use of format specifiers such as "%s" or "%c" that can be used to insert variable values

