

Tutorial 02

Input & Output | Operators | Expressions

Exercise 1:

- A. Write a statement that defines a variable length of type double and reads its value from the input using a predefined Scanner object named input.
- B. Which of the following identifiers are valid? Which are Java keywords?
miles, Test, a++, --a, 4#R, \$4, #44, apps, class, public, int, x, y, radius
- C. Identify and fix the errors in the following code:
- ```
public class Test {
 public void main(String args) {
 int i = j = 2;
 System.out.println(i + " " ++ j);
 }
}
```

#### Exercise 2

What is the output of the following program?

```
public class FindMyOutput {
 public static void main(String args[]) {
 int j, k, L;
 j = 30;
 k = 10;
 k = k - 5;
 L = k / 5;
 System.out.println(" j = " + j);
 System.out.print(" k = " + k + ", ");
 System.out.print(" L = " + L);
 }
}
```

#### Exercise 3

Body Mass Index (BMI) is a measure of health on weight. It can be calculated by taking your weight in kilograms and dividing by the square of your height in meters. Write a program that prompts the user to enter a weight in kilograms and height in meters and displays the BMI.

Here is a sample run:

```
Enter weight in kilograms: 70 ↵
Enter height in meters: 1.7 ↵
BMI is 24.221453287197235
```

## Exercise 4

- A. Write a program that defines two variables of type byte, reads their values from the console, increases the first variable with an amount of the second one, then prints the results.
- B. If the first number is 100 and the other is 50, what is the output of the program? why?