

# Java Exercise: Data Types & Booleans

This exercise helps practice Java data types and Boolean variables. Students will learn to declare variables, use print statements, and write conditional logic.

## Completed Example:

```
public class BooleanDemo {
    public static void main(String[] args) {
        // Variables
        String name = "Sara";
        int age = 15;
        double height = 1.60;
        boolean likesMath = true;
        boolean likesEnglish = false;

        // Print statements
        System.out.println("Student: " + name);
        System.out.println("Age: " + age);
        System.out.println("Height: " + height + " meters");

        // Boolean checks
        if (likesMath) {
            System.out.println(name + " likes Math!");
        } else {
            System.out.println(name + " does not like Math.");
        }

        if (!likesEnglish) {
            System.out.println(name + " does not like English.");
        }
    }
}
```

## Exercise: Fill-in / Modify

```
public class BooleanExercise {
    public static void main(String[] args) {
        // Step 1: Declare variables
        String name = _____;
        int age = _____;
        double height = _____;
        boolean likesMath = _____;
        boolean likesEnglish = _____;
        boolean likesScience = _____;

        // Step 2: Print statements
        System.out.println("Student: " + _____);
        System.out.println("Age: " + _____);
        System.out.println("Height: " + _____ + " meters");

        // Step 3: Boolean checks
        if (likesMath) {
            System.out.println(_____ + " likes Math!");
        } else {
            System.out.println(_____ + " does not like Math.");
        }

        if (!likesEnglish) {
            System.out.println(_____ + " does not like English.");
        }

        if (likesScience) {
```

```

        System.out.println(_____ + " likes Science!");
    } else {
        System.out.println(_____ + " does not like Science.");
    }

    // Step 4: Height check
    if (height > 1.55) {
        System.out.println("Student is tall.");
    } else {
        System.out.println("Student is short.");
    }
}
}

```

## Tasks:

- 1. Fill in all blanks with appropriate values.
- 2. Test with different Boolean values for likesMath, likesEnglish, and likesScience.
- 3. Change the student's height to test the height condition.