7/9/2021 Codio - Variables

### **Declaring Variables**

# **Declaring a Variable**

Declaring a variable has two parts - setting or declaring the *data type* and the *name* of the variable. These two pieces of a variable do *not* change.

To declare a variable, type the data type and name of the variable you want to create, and ; (semi-colon).

String my\_variable;

You will notice we are not printing anything - that is because no value has been assigned yet. The declaration step sets aside empty memory.

TRY IT

Command was successfully executed.

### What happens if you:

- Create two variables with the same name?
- Create two varaibles with the same name but different capitalization (ie var and var)?
- Create two variables of different types with the same name?

TRY IT

Command was successfully executed.

## **Variable Naming Rules**

Here are the rules for naming a variable.

7/9/2021 Codio - Variables

Rule	Correct	Incorrect
Start with a letter, dollar sign or underscore	variable, \$variable, _variable	1variable
Remainder of variable name is letters, numbers, or underscores	var_i_able, var1able	var-i- able, var!able
Cannot use a Java keyword	my_class	class
Variables are case sensitive	variable, Variable, and VARIABLE are all different variables	

#### ► What are the Java key words?

```
Declaring Variables
Which of the following code snippets contain correct variable
declerations?
        int var;
        String var;
        String var;
        String var;
        String var;
        int var 2;
        String var;
        int Var;
 Java does not allow different variables to have the same name - regardless of
 data type.
```

7/9/2021 Codio - Variables

Additionally, Java does not allow spaces in variable names - either user camelCase or snake\_case to separate words.

Since Java variables are case sensitive, var and var are different variables.