

Exercise 1:

Hello Greetings

Let's imagine we do not have IntelliJ and any development env and let's write our first java class with a simple txt file.

Please execute next steps one by one as follow:

- 1) Open a terminal (Command Prompt) - you could find it via the search option available
- 2) Once open the Command Prompt (Terminal) write down the command

> java -version

So to verify you do have installed java in your machine

- 3) Now, let's create a new file, name it Hello.java (remember the extension of the file should be .java, not .txt.java. You can create the file from command prompt via the command

> echo text > Hello.java

- 4) Write down next source code into that file (you can open the file via right click with the mouse under the file and then click Edit option)

```
public class Hello {  
  
    public static void main(String[] args) {  
        System.out.println("Hello " + args[0]);  
    }  
}
```

- 5) Save it
- 6) Open the Command Prompt (terminal)
- 7) Navigate to the directory where Hello.java file is (cd <folder>)
- 8) Compile Hello.java file via the command:

> javac Hello.java

Verify you do have the compiled Hello.class file in same directory

- 9) Execute the Hello java program via the command

> java Hello Yourname

Exercise 2:

Main method and variables

Using the Open function of IntelliJ please Open the ready to use mini project called **javabasics_2_exercise** placed in
{course_directory}/lectures_and_materials/java_module_2/exercise

Navigating to the empty class called **VariablesTest**

There we will declare some variables in different scopes and of course we will declare a main function

1. Write a new main method (static void and accepting array of String)
2. Declare local method variables as:
 - one variable from type int and name number1 with value 10
 - one variable from type String and name title and value "Variables Test"
 - one variable from type int and name number2 with value 20
3. Declare static class level variable with name number1 and value 20
4. Add the line System.out.println(number1) - which value is being printed here? Why ?
5. Print the value of number1 from the static class level variable
6. Sum number1 and number2 local based variables and print the result
7. Sum static class level variable number1 and number2 and print the result
8. Create a new local based variable with name sum from type long
9. Let's sum is the sum of local based number1 and number2 variables
10. Create new local based variable with name shortSum from type short
11. Let's shortSum is the sum of local based variables number1 and number2. Do you need to do something extra in order to make it compiled ?