# First java lab

#### **Lab Exercises**

#### lab1:

Create a simple application that performs the following actions: Display a message to the command prompt.

- ▶ Create simple application that performs the following actions:
  - Display a message to the command prompt.

C:\>java Example1 C:\> Hello Java

# Open notepad write this:

```
class Example1 {
     public static void main(String args[]){
          System.out.println("Hello Java");
     }
}
```



# **Make the file name :** public class name.java

### Then on CMD:

## Compile the file:

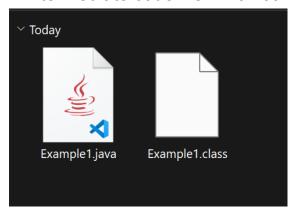
Javac Example1.java

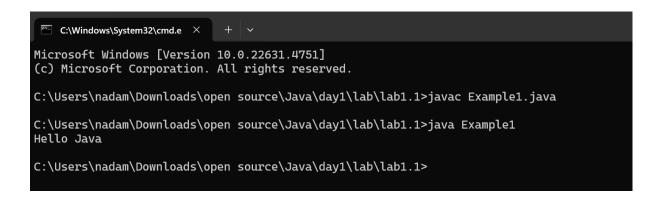
→ the byte code (intermediate code) appears Example1.class (we will have number of intermediate code file depend on the number of classes)

#### Run the file:

# Java Example1

 $\rightarrow$  intermediate code file which contain the main function





#### Lab2:

Create a simple application that performs the following actions: Receives an input (as main arguments) and checks for its value and prints it back.

- Create simple application that performs the following actions:
  - ▶ Receives an input (as main arguments) and checks for its value and prints it back.

C:\>java Example2 CoreJava
C:\> true value CoreJava

## Same steps

#### Notes:

In Java, the <u>equals()</u> method and the <u>== operator</u> are used to compare objects.

- The main difference is that the string equals() method compares the *content equality of two strings* 

 while the == operator compares the reference or memory location of objects in a heap, whether they point to the same location or not.

 $C:\Users\\ \nadam\\Downloads\\ \open source\\ \Java\\ \day1\\ \lab\\ \lab1.2\\ \nadam\\ \colonormal{Downloads}\\ \nadam\\ \nad$ 

C:\Users\nadam\Downloads\open source\Java\day1\lab\lab1.2>java Example2
false value

C:\Users\nadam\Downloads\open source\Java\day1\lab\lab1.2>java Example2 CoreJav false value

C:\Users\nadam\Downloads\open source\Java\day1\lab\lab1.2>java Example2 CoreJava
true value CoreJava

#### Lab3:

Create a simple application that performs the following actions: Receives two inputs (as main arguments) a number and a string and prints the string on different lines according to the given number.

- ▶ Create simple application that performs the following actions:
  - ▶ Receives two inputs (as main arguments) a number and a string and prints the string on different lines according to the given number.

```
C:\>java Example3 5 CoreJava
C:\> CoreJava
CoreJava
CoreJava
CoreJava
CoreJava
```

```
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```

#### Note:

Args[] is a string array so we need to convert the first argument to integer

```
C:\Users\nadam\Downloads\open source\Java\day1\lab\lab1.3>java Example3.java

C:\Users\nadam\Downloads\open source\Java\day1\lab\lab1.3>java Example3 1 CoreJava

C:\Users\nadam\Downloads\open source\Java\day1\lab\lab1.3>java Example3 5 CoreJava

C:\Users\nadam\Downloads\open source\Java\day1\lab\lab1.3>java Example3 k CoreJava

can't convert string k to int

C:\Users\nadam\Downloads\open source\Java\day1\lab\lab1.3>
```