République Algérienne Démocratique et Populaire Ministère de l'Enseignement Supérieur et de la Recherche Scientifique





الجمهورية الجزائرية الديمقراطية الشعبية وزارة التعليم العالي والبحث العلم الآلي المدرسة العليا للإعلام الآلي 8 ماي 1945 - سيدي بلعباس

Object-Oriented Programming (OOP)- 2nd Year CPI

TP 01 Introduction to Java programming language

Part Two (Setup):

Download and Install Java Development Kit (JDK):

- Go to the Oracle website or AdoptOpenJDK website to download the JDK installer for Windows.
- Run the installer and follow the installation instructions.
- After installation, set the JAVA_HOME environment variable to point to the JDK installation directory. This is typically located at C:\Program Files\Java\jdk-version.
- Open Notepad or any text editor. Type the following code:

```
public class HelloWorld {
    public static void main(String[] args) {
        System.out.println("Hello, World!");
    }
}
```

- Save the file with the name HelloWorld.java.
- Press win + R, type cmd, and press Enter.

Compile and Run:

- In the Command Prompt, navigate to the directory where Helloworld. java is saved.
- Type javac Helloworld. java and press Enter to compile.
- Then type java Helloworld and press Enter to run.

ECOLE SUPÉRIEURE EN INFORMATIQUE 8 Mai 1945 - Sidi-Bel-Abbès



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الجمهورية الجزائرية الديمقراطية الشعبية

Part Two (Hello world): ★☆☆☆

Task 1- Write a java program to print your information as shown in cart:

My name is : _____ Born on : _____ I have _____ Years old I weight _____ Kg

- Task 2- Write a Java program to calculate and print the average of three numbers.
- **Task** 3- Write a Java program to find the value of the following expression:

- Task 4- Write a Java program to check whether the given number is even or odd.
- Task 5- Consider the following code snippet: 1 int i = 10; 2 int n = i++%5;
 - a. What are the values of i and n after the code is executed?
 - b. What are the final values of **i** and **n** if instead of using the postfix increment operator (**i++**), you use the prefix version (**++i**))?
 - c. To invert the value of a **boolean**, which operator would you use?
 - d. Which operator is used to compare two values, = or == ?
- Task 6- Write a JAVA program to display default value of all primitive data type of JAVA (most of them)
- Task 7- In the following program, explain why the value "6" is printed twice in a row:

```
1 class PrePostDemo {
 2
        public static void main(String[] args){
 3
            int i = 3;
 4
            i++;
 5
            System.out.println(i);
                                         // "4"
 6
            ++i;
                                            "5"
 7
            System.out.println(i);
                                            "6"
            System.out.println(++i);
 9
                                         // "6"
            System.out.println(i++);
10
            System.out.println(i);
                                            11711
11
12 1
```