

Basic Programming Report

Jobsheet 1: Programming Languages (Instalasi Java Development Kit/JDK)



Nadia Pramudita (2341720239)

Class TI 1-I / 22

INFORMATICS ENGINEERING D-IV STUDY PROGRAM

INFORMATION TECHNOLOGY DEPARTMENT

POLITEKNIK NEGERI MALANG

Question 1

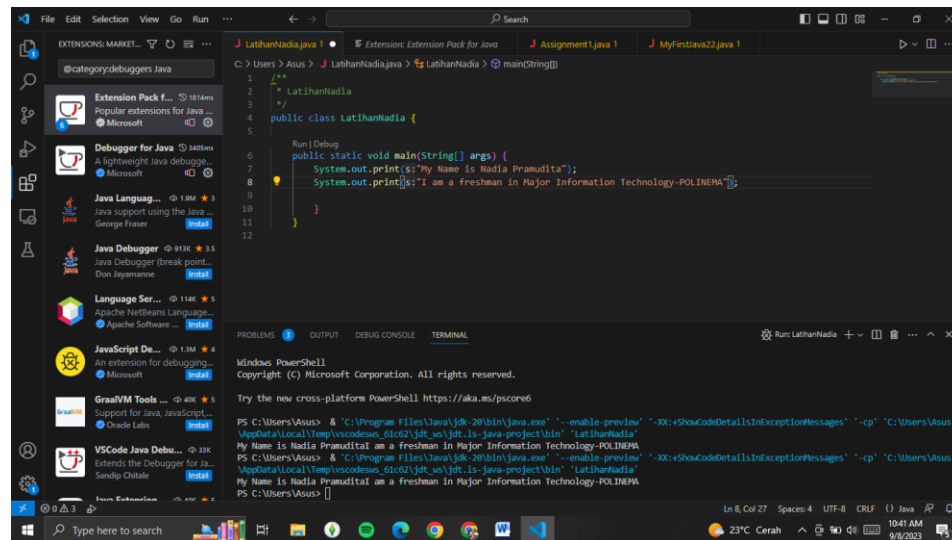
1. Why do we have to enter the bin folder location from Java into the PATH variable?
 - So that javac can be recognized when called in CMD, so we don't need to type the directory where the bin folder is again, just call the java command. Because the bin contains all binary executable files.
2. What is the use of javac command when entered at the command prompt!
 - To convert the source code that we make into machine language.

Question 2

1. What is the use of javac command in the above steps? (javac MyFirstJava22.java)
 - To carry out the process compile to files Exercise.java and generate files Exercise.class to run on a computer.
2. What is the use of java command in the above experiment? (java MyFirstJava00)
 - To run programs that have been compiled with the JVM (Java Virtual Machine).
3. What is the use of main method in java programming, what is the format of main method?
 - When the Java interpreter starts executing the application, it calls the class's main method. The main method then calls all other methods needed to execute the application.
 - The main method has a specific format: "public static void main(String[] args)". This format specifies the required format for the main method.

Question 3

1. Change the statement `System.out.println` to be `System.out.print` at line 7 and 8, then run the program!

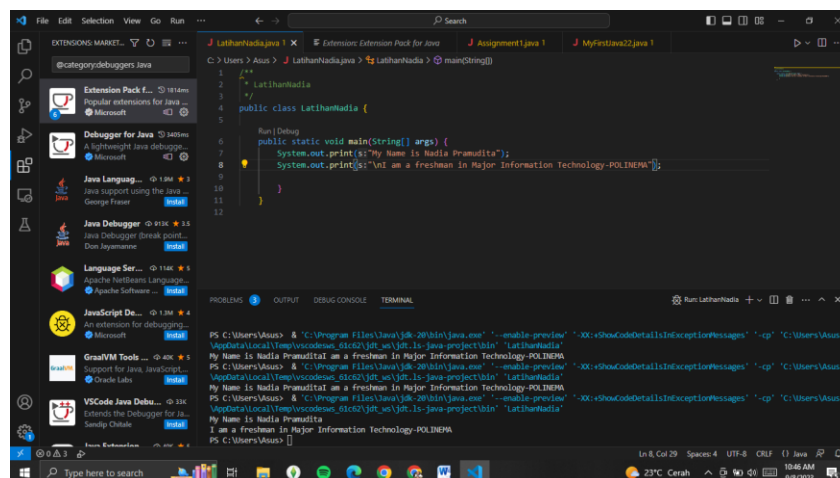


```
1 //  
2 * LatihanNadia  
3 */  
4 public class LatihanNadia {  
5  
6     Run | Debug  
7     public static void main(String[] args) {  
8         System.out.print("My Name is Nadia Pramudita");  
9         System.out.print("I am a freshman in Major Information Technology-POLINEMA");  
10    }  
11  
12 }
```

2. What is the difference between `System.out.println(".....");` and `System.out.print(".....");`?

- If you use `System.out.println(".....");` it will produce output sequentially down according to the order and if you use `System.out.print(".....");` it will produce output without newlines.

3. Change the statement at line 8 as the following syntax! `System.out.print("\nsaya adalah Mahasiswa Jurusan Teknologi Informasi - POLINEMA");`

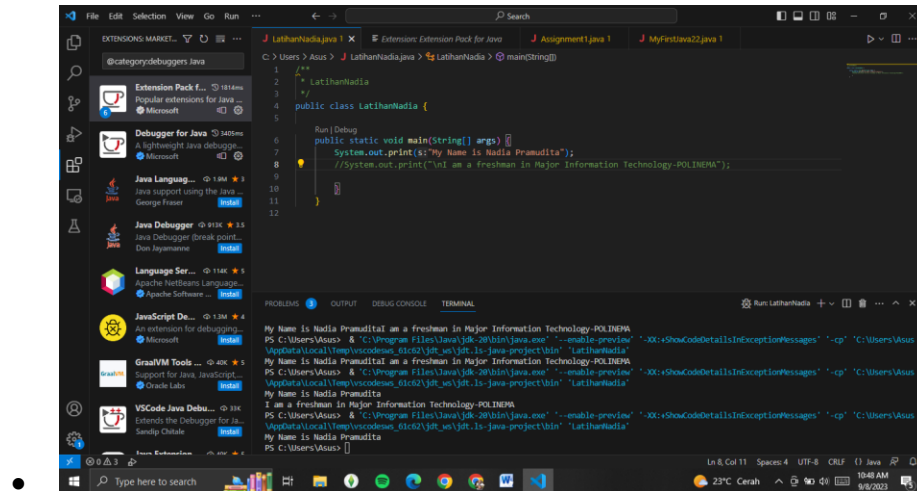


```
1 //  
2 * LatihanNadia  
3 */  
4 public class LatihanNadia {  
5  
6     Run | Debug  
7     public static void main(String[] args) {  
8         System.out.print("My Name is Nadia Pramudita");  
9         System.out.print("\nsaya adalah Mahasiswa Jurusan Teknologi Informasi - POLINEMA");  
10    }  
11  
12 }
```

4. What is the use of `\n` at line 8!

- To produce sentence output separate from or below the first sentence.

5. Still at line 8, add character // in front of the source code! `//System.out.print("\nsaMahasiswa Prodi Teknik Informatika");`



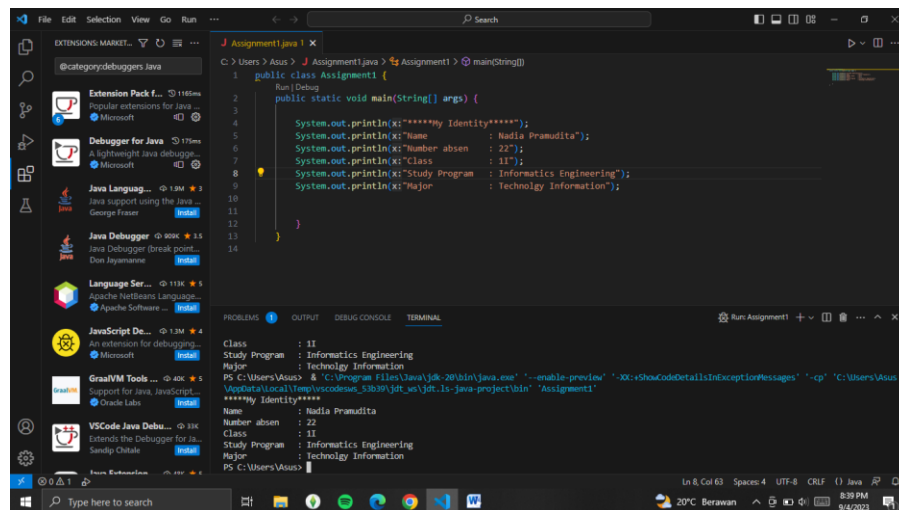
6. Run the program and observe the result! And what is the use of character `//` ?

- As a comment or giving instructions or providing information to find out what to do next or the meaning of the program language that has been written.

1. Assignment

Times : 30 minutes

Create a Java program with the following output, then explain the program you have created!



- The public class has the name "Task". The program code that will be executed in this class.
- Public static void main function to execute when the program is run.
- System.out.println functions to print text to the layer.
- The resulting output is personal data.