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CLASS : 1G

MATERIAL : JDK Installation

JOBSHEET 1

Questions 1

1. Explain the use of entering the location of the Java bin folder into the PATH!
   1. **Access to Java Commands:** These tools are located in the JDK's "bin" (binary) folder. By adding this folder to the PATH, you can run these commands from any directory in your terminal without specifying the full path to their location
   2. **Convenience:** Without modifying the PATH, you'd need to navigate to the JDK's "bin" directory each time you want to execute a Java-related command. By adding it to the PATH, you simplify the process and save time.
   3. **Running Java Programs:** It's particularly important for running Java programs. When you compile and run a Java program, the Java Virtual Machine (JVM) needs to be invoked. If the JDK's "bin" folder is not in the PATH, you'd have to specify the full path to the java command, which can become cumbersome.

2. Explain the use of the javac command when entering the command prompt!
   The Javac command is used to check whether the windows operation supports java programs or not, if it is not recognized check the settings PATH (there may be an error when entering the bin directory location in the variable PATH).
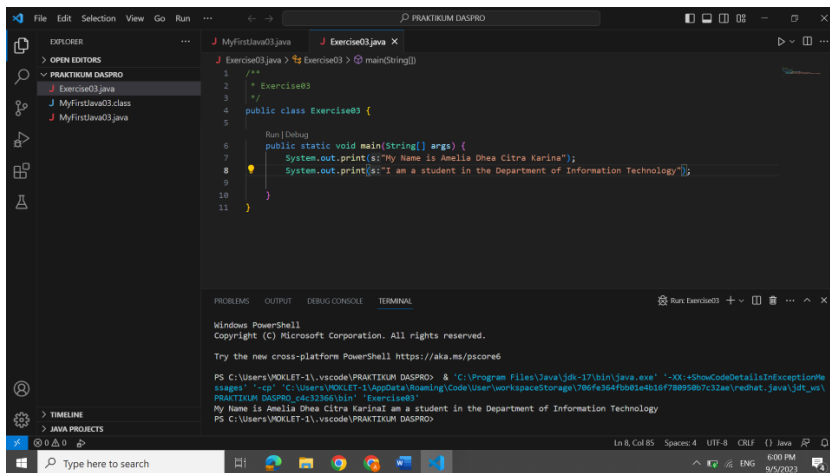
Questions 2

1. Explain the function of javac MyFirstJava00.java command in the experiment!
   The command javac MyFirstJava00.java is used to compile a java source code file named "MyFirstJava00.java" into bytecode.

2. Explain the function of java MyFirstJava00 command in the experiment!
   The java MyFirstJava00 command is used to run a Java program named "MyFirstJava00"

Questions 3

1. Change the command System.out.println to System.out.print on lines 7 and 8, then run the program again!
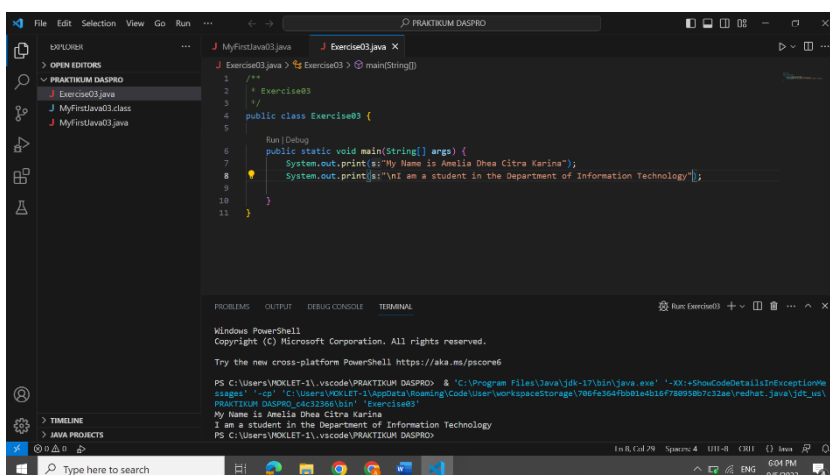
2. What is the difference between System.out.println ("..........."); and System.out.print ("............");. Please explain!

- println stands for "print line," and it's used to display text followed by a newline character (\n). This means that after printing the specified text, the cursor moves to the next line.
- print is used to display text without adding a newline character. This means that subsequent output will be on the same line.
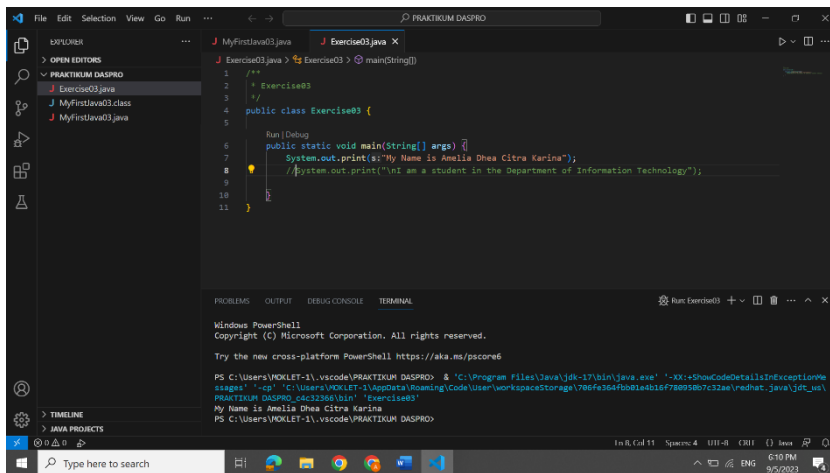
3. Change the command on line 8 :

4. Explain the function of the command \n on line 8!
   The command "\n" is an escape sequence used to create newlines or line breaks within strings in programming.

5. On line 8, add the // character so that the line becomes
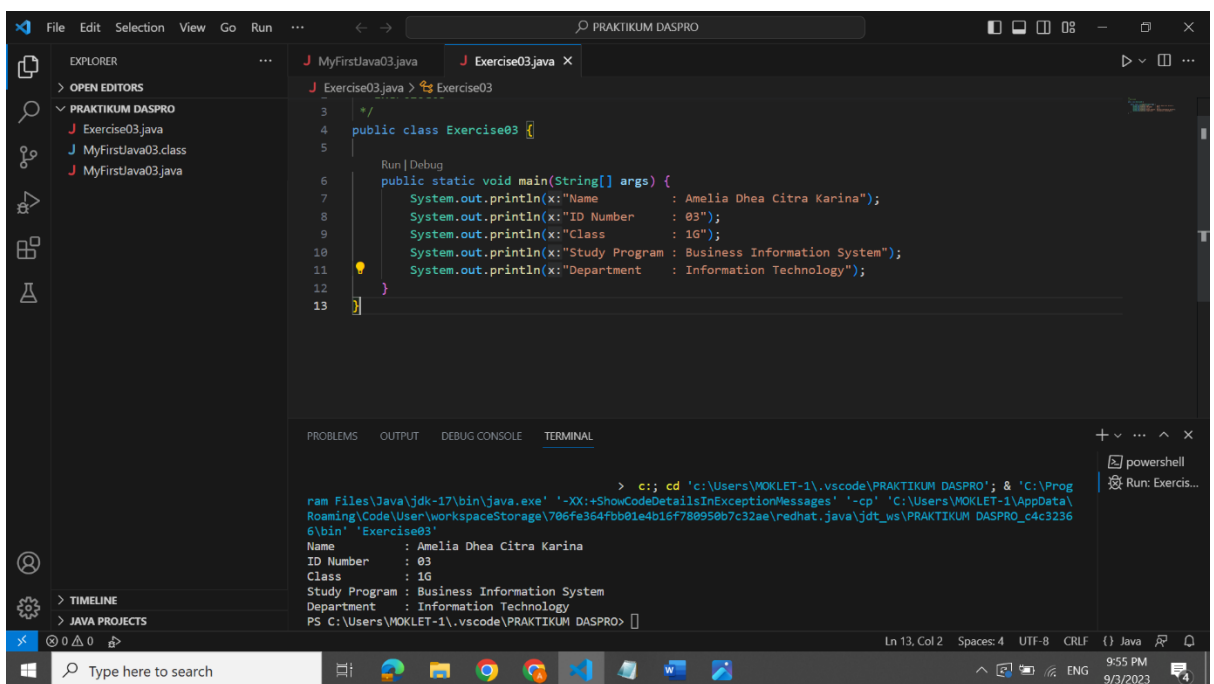
6. Run the program and see what happens! Explain the function of the character // on line 8!

The character // on line 8 is typically used in programming as a comment delimiter. This means that anything following // on that line is considered a comment and is not executed as code.

TASK

1. Create a java program with the following output, then run the program that you created!

Exercise 2

·7 Input : Tabel nilai angka dan nilai huruf

·7 Lakukan pengecekan nilai angka
~ Jika nilai angka kurang dari 80 atau kurang dari sama dengan 100, diberi nilai "A"
·7 Lakukan pengecekan nilai angka
~ Jika nilai angka kurang dari 73 atau kurang dari sama dengan 80, diberi nilai "B+"
·7 Lakukan pengecekan nilai angka
~ Jika nilai angka kurang dari 65 atau kurang dari sama dengan 73, diberi nilai "B"
·7 Lakukan pengecekan nilai angka
~ Jika nilai angka kurang dari 60 atau kurang dari sama dengan 65, diberi nilai "C+"
·7 Lakukan pengecekan nilai angka
~ Jika nilai angka kurang dari 50 atau kurang dari sama dengan 60, diberi nilai "C"
·7 Lakukan pengecekan nilai angka
~ Jika nilai angka kurang dari 39 atau kurang dari sama dengan 50, diberi nilai "D"

·7 Lakukan pengecekan nilai
~ Jika nilai kurang dari sama dengan 39, diberi nilai "E"

·7 Output : Nilai angka diubah ke nilai huruf.