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Class : II / D-IV IT

Subject: Based Programming

### Question & Answer Experiment 1

1. Explain why we should entering the bin folder location from Java into the PATH! Variable!

Answer : So that the java compiler (javac) can be recognized when called at the Command prompt (CMD)

2. Explain utilities javac command when entered at the command prompt!

Answer : The javac command is used to compile .java files and create .class files

### Question & Answer Experiment 2

1. Explain the function of the **Javac MyFirstJava.java** command in the above experiment!

Answer : Used to compile MyFirstJava.java files, create .class files and shows if there is an error code.

2. Explain the function of the **java MyFirstJava** command in the above experiment!

Answer : Used to execute the .class file so that it can appear on the command prompt screen.

3. Explain the function of the program code `System.out.println("Hello Word");`

Answer : To display the result of the word in code to Command Prompt.

```
C:\Users\ASUS\Dasar Pemrograman>javac MyFirstJava.java
C:\Users\ASUS\Dasar Pemrograman>java MyFirstJava
Hello Word
C:\Users\ASUS\Dasar Pemrograman>
```

4. Add the program code **`System.out.println ("I like programming");`** on line 4, then run the program and explain how the output results!

Answer : The result of the text I input (I like programming) appears in Command Prompt.

```
C:\Users\ASUS> cd C:\Users\ASUS\Dasar Pemrograman
C:\Users\ASUS\Dasar Pemrograman>javac MyFirstJava.java
C:\Users\ASUS\Dasar Pemrograman>java MyFirstJava
Hello Word
I Like Programming
C:\Users\ASUS\Dasar Pemrograman>_
```

5. Change the **System.out.println** command to **System.out.print** on lines 3 and 4 then run the program!

Answer : Will bring up the text (which has been inputted in NPP) without spaces in the Command Prompt.

```
C:\Users\ASUS\Dasar Pemrograman>javac MyFirstJava.java
C:\Users\ASUS\Dasar Pemrograman>java MyFirstJava
Hello WordI Like Programming
C:\Users\ASUS\Dasar Pemrograman>_
```

6. What is the difference between **System.out.println (".....")**; and **System.out.print (".....")** ;, explain!

Answer : System.out.println : Have space/enter between text ( Top )

System.out.print : Doesn't have any space/enter between the text ( Bottom )

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19042.1165]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ASUS> cd C:\Users\ASUS\Dasar Pemrograman
C:\Users\ASUS\Dasar Pemrograman>javac MyFirstJava.java
C:\Users\ASUS\Dasar Pemrograman>java MyFirstJava
Hello Word
I Like Programming
C:\Users\ASUS\Dasar Pemrograman>javac MyFirstJava.java
C:\Users\ASUS\Dasar Pemrograman>java MyFirstJava
Hello WordI Like Programming
C:\Users\ASUS\Dasar Pemrograman>_
```

7. In line 4 add the // character so that the line becomes **//System.out.print("I like programming")**;

Answer : The code changes to green

```
1 public class MyFirstJava{
2
3     public static void main(String args[]) {
4         System.out.print("Hello Word");
5         //System.out.print("I Like Programming");
6     }
7 }
8 }
```

8. Run the program and observe what happens!

Answer : Does not display text with code //. Only pops up Hello Word.

```
C:\Users\ASUS\Dasar Pemrograman>javac MyFirstJava.java
C:\Users\ASUS\Dasar Pemrograman>java MyFirstJava
Hello Word
C:\Users\ASUS\Dasar Pemrograman>
```

9. Explain the character function // on line 6 (question number 7)!

Answer : Its function is not to display the text that has been inputted into the code. Until only display another text without code //

## Tasks

Make a java program with the following output results, then explain run the program that you have created!

Answer : The trick is to input the data in the code as I have done before. Like this

```
public class MyFirstJava{  
    public static void main(String args[]) {  
        System.out.println("-----");  
        System.out.println("New Student Biography");  
        System.out.println("-----");  
        System.out.println("NIM          : 2141720155");  
        System.out.println("Name       : Faricha Aulia");  
        System.out.println("Departement : Technology Information");  
        System.out.println("Address    : Malang");  
    }  
}
```

And run the program. Will Show Like This

```
C:\Windows\system32\cmd.exe  
Microsoft Windows [Version 10.0.19042.1165]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\ASUS> cd C:\Users\ASUS\Dasar Pemrograman  
  
C:\Users\ASUS\Dasar Pemrograman> javac MyFirstJava.java  
  
C:\Users\ASUS\Dasar Pemrograman> java MyFirstJava  
  
-----  
New Student Biography  
-----  
NIM          : 2141720155  
Name       : Faricha Aulia  
Departement : Technology Information  
Address    : Malang  
  
C:\Users\ASUS\Dasar Pemrograman>
```