Basic Pratice of Programming Meeting 1



From:

AL AZHAR RIZQI RIFA'I FIRDAUS

Class:

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Absence:

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Major:

Information Technology

Study Program:

Informatic Engineering

Experiment 1: Installing the Java Development Kit/JDK

Screenshoot java binary at file bin

```
ED Command Prompt

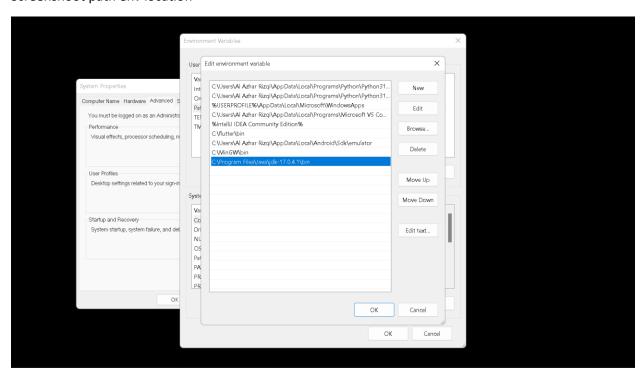
C. (Program Files/Java)dyk-17,0.4.1/bdir
Volume in drive C is Zharsuke
Volume Serial Number is 4C5F-960E

Directory of C: (Program Files/Java)dyk-17.0.4.1

60/31/2022 65:16 PR OUR)

...
60/31/2022
```

Screenshoot path env location



Screenshoot running javac

Questions

- 1. Explain the use of entering the location of the Java bin folder into the PATH!
- 2. Explain the use of the javac command when entering the command prompt!

Answer

- 1. To put the directories who want to search when do command at command prompt.
- 2. Javac is one of binary file at jdk to compile file .java to .class file which one will be execute again with "java" command.

Experiment 2: Basic Structure of Java

Screenshoot file MyFirstJava00.java

```
public class MyFirstJava00 {
    Run | Debug
    public static void main(String[] args) {
        System.out.print(s: "My name is AL AZHAR RIZQI RIFA'I FIRDAUS");
    }
}

7 }
```

Screenshoot output file MyFirstJava00.java

```
C:\Users\Al Azhar Rizqi\Documents\Kuliah\Praktikum Dasar Pemrograman\coding>java MyFirstJava00.java
My name is AL AZHAR RIZQI RIFA'I FIRDAUS
C:\Users\Al Azhar Rizqi\Documents\Kuliah\Praktikum Dasar Pemrograman\coding>
```

Questions!

- 1. Explain the function of javac MyFirstJava00.java command in the experiment!
- 2. Explain the function of java MyFirstJava00 command in the experiment!
- 3. Add the program code System.out.println("I am a Student of Informatics Engineering Program"); on line 6, then run the program and explain how the output is!

Code:

Output:

```
C:\Users\Al Azhar Rizqi\Documents\Kuliah\Praktikum Dasar Pemrograman\coding>java MyFirstJava00.java
My name is AL AZHAR RIZQI RIFA'I FIRDAUS
I am Student of Informatics Engineering Program
C:\Users\Al Azhar Rizqi\Documents\Kuliah\Praktikum Dasar Pemrograman\coding>
```

Explanation

With add statement:

```
System.out.print(s: "I am Student of Informatics Engineering Program");
```

Output will display "I am Student of Informatics Engineering Program"

4.Code:

```
public class MyFirstJava00 {
    Run | Debug
public static void main(String[] args) {
    System.out.print(s: "My name is AL AZHAR RIZQI RIFA'I FIRDAUS");

    System.out.print(s: "I am Student of Informatics Engineering Program");
}

System.out.print(s: "I am Student of Informatics Engineering Program");
}
}
```

Output:

```
C:\Users\Al Azhar Rizqi\Documents\Kuliah\Praktikum Dasar Pemrograman\coding>java MyFirstJava00.java
My name is AL AZHAR RIZQI RIFA'I FIRDAUSI am Student of Informatics Engineering Program
C:\Users\Al Azhar Rizqi\Documents\Kuliah\Praktikum Dasar Pemrograman\coding>
```

5. The difference between

```
System.out.println(x: "....");
```

With

```
System.out.print(s: "....");
```

Is on adding enter to the output where 'println' add enter at the end of its output and 'print' does not.

6. Code:

```
public class MyFirstJava00 {
    Run|Debug
public static void main(String[] args) {

    System.out.print(s: "My name is AL AZHAR RIZQI RIFA'I FIRDAUS");

    System.out.print(s: "\nI am Student of Informatics Engineering Program");
}

System.out.print(s: "\nI am Student of Informatics Engineering Program");
}
```

- 7. The function symbol \n to add enter newline at output.
- 8. Code:

```
public class MyFirstJava00 {
    Run | Debug

public static void main(String[] args) {
    System.out.print(s: "My name is AL AZHAR RIZQI RIFA'I FIRDAUS");
    //System.out.print("\nI am Student of Informatics Engineering Program");
}

}
```

9. Program observation

10. The function from // symbol to give comment at code useful to give description with human language at code too much and too complicated.

Assignment

Code:

Output:

```
C:\Users\Al Azhar Rizqi\Documents\Kuliah\Praktikum Dasar Pemrograman\coding>java tugas.java
Biodata of Information Technology Departement students

Name : AL AZHAR RIZQI RIFA'I FIRDAUS
NIM : 2241720263
Address : Candi Agung IV Street Number 10
Phone : 0895366608834
Hobby : Jogging, playing badminton, swimming, reading a book

C:\Users\Al Azhar Rizqi\Documents\Kuliah\Praktikum Dasar Pemrograman\coding>
```

Explanation:

The above program aims to display output in the form of your own identity, which uses the statement System.out.println() as a means of outputting the terminal.