

Practicum Report

Job sheet 3

Assignment 3: Assignment Variables, Data Types, and Operators



MUHAMMAD BAIHAQI AULIA ASY'ARI

2241720145

CLASS 1I (INTERNATIONAL)

INFORMATICS ENGINEERING

INFORMATICS TECHNOLOGY

STATE POLYTECHNIC OF MALANG

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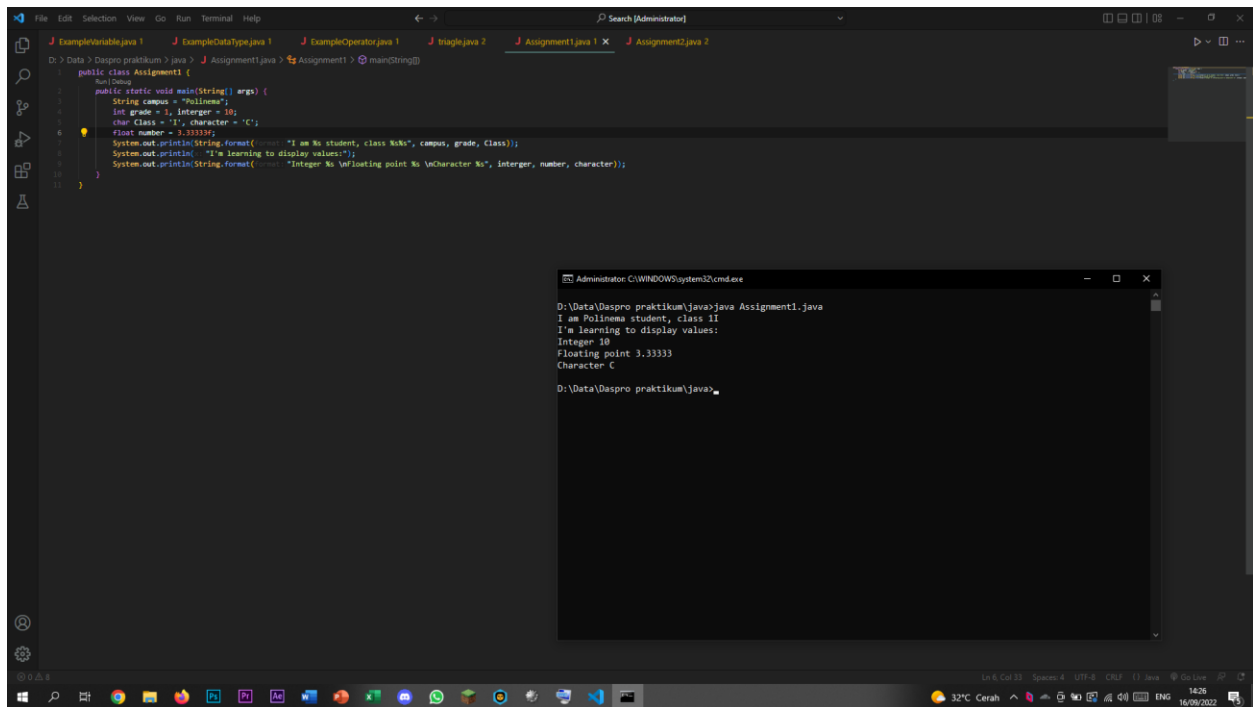
Assignment

1

Pay attention to the following table:

Variable Name	Data Type	Initial Value	Description
campus	Sentence	Polinema	-
grade	Integers	1	-
class	Character	Z	Initial value = your class
integer	Integers	10	-
number	Floating point	3.33333	-
character	Character	C	-

From the table information, create a program to display the results as shown below!



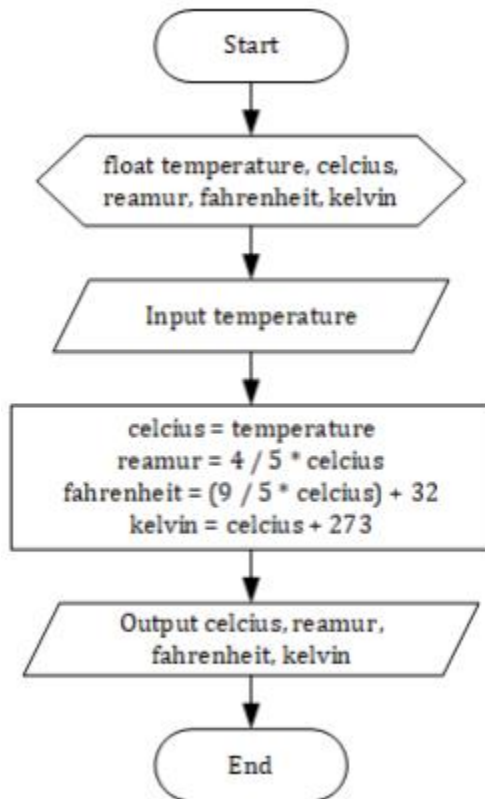
The screenshot shows an IDE with a Java file named `Assignment1.java`. The code defines a class `Assignment1` with a `main` method. Inside `main`, variables are initialized: `String campus = "Polinema";`, `int grade = 1;`, `int integer = 10;`, `char class = 'Z';`, `float number = 3.33333f;`, and `Character character = 'C';`. The program then prints a message and the values of these variables using `System.out.println` and `String.format`. A terminal window below the code shows the output of the program.

```
public class Assignment1 {  
    public static void main(String[] args) {  
        String campus = "Polinema";  
        int grade = 1; int integer = 10;  
        char class = 'Z'; Character character = 'C';  
        float number = 3.33333f;  
        System.out.println(String.format("I am %s student, class %s", campus, grade, class));  
        System.out.println("I'm learning to display values!");  
        System.out.println(String.format("Integer %s \nFloating point %s \nCharacter %s", integer, number, character));  
    }  
}
```

```
D:\Data\Despro praktikum\java>java Assignment1.java  
I am Polinema student, class 11  
I'm learning to display values:  
Integer 10  
Floating point 3.33333  
Character C  
D:\Data\Despro praktikum\java>
```

2

Observe the flowchart to convert temperature



Implement the flowchart into the program using the Java programming language!

```

1  import java.util.Scanner;
2
3  public class Assignment2 {
4      public static void main(String[] args) {
5          Scanner sc = new Scanner(System.in);
6          float temperature, celcius, reamur, fahrenheit, kelvin;
7          System.out.print("Insert temperature\t: ");
8          temperature = sc.nextInt();
9          celcius = temperature;
10         reamur = 4 * celcius / 5;
11         fahrenheit = (9 * celcius / 5) + 32;
12         kelvin = celcius + 273;
13         System.out.println(String.format("\nCelcius\t\t\t: %s\nReamur\t\t\t: %s\nFahrenheit\t\t\t: %s\nKelvin\t\t\t\t: %s", celcius, reamur, fahrenheit, kelvin));
14     }
15 }
  
```

```

D:\Data\Daspro praktikum\java> java Assignment2.java
Insert temperature      : 18
Celcius                : 18.0C
Reamur                 : 14.4R
Fahrenheit             : 64.4F
Kelvin                 : 291.0K
  
```