

# Basic Programming Practicum

## Jobsheet 3 Assignment



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**Class**

1i

**Department**

Information Technology

**Study Program**

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# 1 Assignment

1. Pay attention to the following table.

Variable Name	Data Type	Initial Value	Detail
campus	Sentence	Polinema	-
grade	Round Number	1	-
class	Character	i	initial value = your class
integer	Integers	10	-
number	Floating point	3.33333	-
character	Character	C	-

From the information provided on the table, create a program to display like this:

```
I am Polinema student, class 1i
I'm learning to display values:
Integer 10
Floating point 3.33
Character C
```

```
1 public class Assignment1 {
2     public static void main(String[] args) {
3         String campus = "Polinema";
4         int grade = 1;
5         char _class = 'i'; // can't use 'class' since it's a Java keyword so I added an _ prefix
6         int integer = 10;
7         float number = 3.33333F;
8         char character = 'C';
9
10        System.out.printf("I am %s student, class %d%c\n", campus, grade, _class);
11        System.out.printf("I'm learning to display values:\n");
12        System.out.printf("Integer %d\n", integer);
13        System.out.printf("Floating point %.2f\n", number);
14        System.out.printf("Character %c\n", character);
15    }
16 }
```

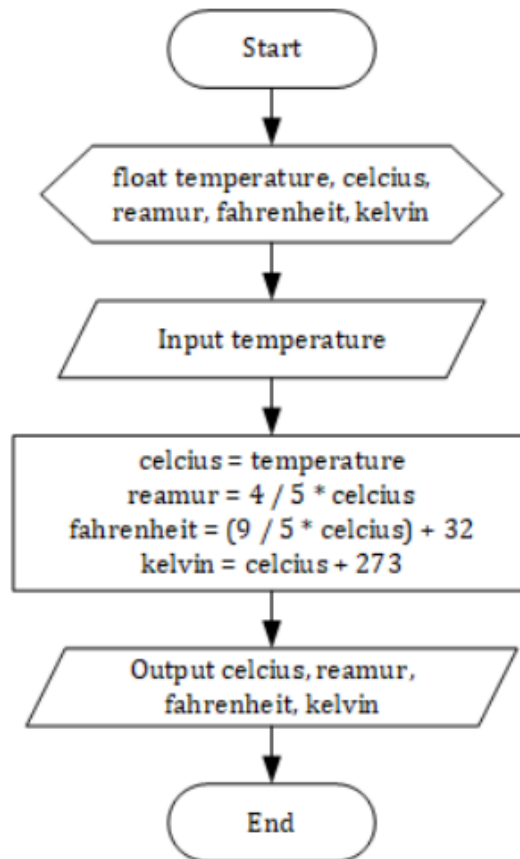
Figure 1: The code for Assignment No. 1

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```
uni-stuff/basic-programming-practicum/2022-09-15/jobsheet3-assignment/codes on master (X) via v1.8.0
< javac Assignment1.java && java Assignment1
I am Polinema student, class 1i
I'm learning to display values:
Integer 10
Floating point 3.33
Character C
```

Figure 2: The output for Assignment No. 1

2. Observe the following flowchart to convert the temperature



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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
8          System.out.print("Insert the temperature in celcius: ");
9          temperature = sc.nextInt();
10
11         celcius = temperature;
12         reamur = (4F / 5F) * celcius;
13         fahrenheit = (9F / 5F * celcius) + 32F;
14         kelvin = celcius + 273F;
15
16         System.out.printf("Celcius: %.1f C\n", celcius);
17         System.out.printf("Reamur: %.1f R\n", reamur);
18         System.out.printf("Fahrenheit: %.1f F\n", fahrenheit);
19         System.out.printf("Kelvin: %.1f K\n", kelvin);
20     }
21 }
```

Figure 3: The code for Assignment No. 2

```
~/Dev/uni-stuff/basic-programming-practicum/2022-09-15/jobsheet3/codes via 🐙 v1.8.0
< javac Assignment2.java && java Assignment2
Insert the temperature in celcius: 98
Celcius: 98.0 C
Reamur: 78.4 R
Fahrenheit: 208.4 F
Kelvin: 371.0 K
```

Figure 4: The output for Assignment No. 2