General Sir John Kotelawala Defence University
Department of Computer Science
Object Oriented Programming I
Lab Sheet 1
Introduction to Java

1. Write a Java program to display the following output.

```
Welcome to Java Programming!
```

2. Write a Java program to display the following output.

```
Welcome
to
Java
Programming!
```

3. Write a Java program to display the following output.

```
USER INFORMATION
------------------------------
NAME    : SUNIL SILVA
ADDRESS: No23, Panadura
AGE     : 19
SALARY : 23500
GENDER : M
------------------------------
```

4. Create some variables to keep the records of a student with his name, age and address and show them in your program.
5. Write a Java program to print the result of the specified operations.
   - -1+4*6
   - (35+5)%7
   - 14+-4*6/11

- 2+15/6*1-7%2

6. Write a Java Program to calculate sum of 5 subjects and find the percentage.
7. Write a Java program which will convert a given Celsius temperature in to Fahrenheit.
8. Program to show swap of two no's without using third variable.
9. Create a BMI calculator that reads the given weight in pounds and height in inches (or, if you prefer, the user's weight in kilograms and height in meters), then calculates and displays the user's body mass index. Also, display the following information from the Department of Health and Human Services/National Institutes of Health so the user can evaluate his/her BMI:

```
BMI VALUES
Underweight: less than 18.5
Normal:      between 18.5 and 24.9
Overweight:  between 25 and 29.9
Obese:       30 or greater
```

Note:

$$BMI = \frac{weightInPounds \times 703}{heightInInches \times heightInInches}$$

or

$$BMI = \frac{weightInKilograms}{heightInMeters \times heightInMeters}$$

10. Write a C++ Program to print half pyramid using *characters. Pre-defined rows count should be 5.
    Sample Output:

```
*
* *
* * *
* * * *
* * * * *
```