5COSC019W - Tutorial 1 Exercises

1   Java/Netbeans Reminder

Write a program which displays the message

```
Welcome to Online Learning!
```

```
Please virus go away!
```

Make sure that the second message "Please virus go away!" is displayed after a blank line is between the first and the second sentence.

2   Java/Netbeans Reminder - Syntax of the main method

Your tutor will go through the syntax of the main method. What the arguments `String[] args` are and how you can pass command line arguments to the main method using Netbeans or the command line.

3   Java Reminder - For Loops and ifs

Write a Java program which displays all the even numbers (numbers which are divided exactly by 2) in the range between 0 and 100. You should use a for loop for this exercise.

4   Java Reminder - While Loops and ifs

Write the equivalent program using a while loop!

Your Java program displays all the even numbers (numbers which are divided exactly by 2) in the range between 0 and 100.

5   Java References

Guess what is the output of the following program **without running it!**. Then verify your guess by running the program. Make sure that you justify and understand why you got the specific output.

```java
public class ReferencesAssignment {
    public static void main(String[] args) {
        String x = "abc";
        String y = x;

        y = new String("123");
        String z = x;
        y = x;
        z = "456";

        System.out.println(x+y+z);
    }
}
```

6 A Lottery Program

A lottery ticket consists of 6 <u>unique</u> numbers in the range between 1 and 49.

Can you write a Java program which calculates such a 6 lucky random unique numbers which your program user can play in the next lottery?