Lab 1
Introduction to Java

- Goal: program in Java

Integrated Development Environment (IDE)

- **IntelliJ IDEA Community Edition**

- **Settings/Preferences**
  - Ctrl-Alt "os"

- **Menu to stay on Top**
  - View → Appearance → Show Main Menu in Separate Tool Bar

Program 1

Display your name and three sentences about how Java is better than Python

Program 2

Display a hollow triangle based on a given positive size.

For example, if the size is 5, then display:

```
+
+ +
+   +
+ +
+
```

if the size is 6, then display:

```
+
+ +
+   +
+   +
+ +
+
```

Program 3

Using a loop, write a method to sum up the integers from 1 to 79 (inclusive) and display their sum from main.

Generalize the method to sum from 1 up to any given integer.

If the integer is negative, sum from -1 down to that number. Handle 0 appropriately.

Division Operators

```java
public static void main(String[] args) {

    System.out.println("14 / 3 = "     + 14 / 3);
    System.out.println("14.0 / 3 = "   + 14.0 / 3);
    System.out.println("14 / 3.0 = "   + 14 / 3.0);
    System.out.println("14.0 / 3.0 = " + 14.0 / 3.0);
    System.out.println("14 % 3 = "     + 14 % 3);
    System.out.println("14.0 % 3 = "   + 14.0 % 3);
    System.out.println("14 % 3.0 = "   + 14 % 3.0);
    System.out.println("14.0 % 3.0 = " + 14.0 % 3.0);

}
```

The End