Lab Report 01

Problem

State the given problem clearly in one's own words. Do not just copy and paste the description given in the lab.

Had to create an initial shape and then create 2 copies horizontally adjacent to each other.

Proposed Solution

Give a hypothesized algorithm to solve the problem. This description must be a detailed and high-level without using implementation details. One way to think of it is it combines both the hypothesis and the procedure. Flow Charts and graphics are strongly encouraged.

Create a Java program with "System.out.println();" to print out the shapes needed

Tests and Results

Show a sufficient number of tests with the results demonstrating that the proposed solution works, which includes boundary conditions. Also show that the program works or halts properly for invalid values.

```
<terminated> Lab01 [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe  (Aug 29, 2022, 10:50:49 AM – 10:50:50 AM) [pid: 18632]
Drawing the initial shape:

 ̄ ' ^ ' ̄
( ̄'^'))
|     ||
|     ||
'----'`
Displaying 2 copies of the shape that are horizontally adjacent:

( ̄'^'))       ( ̄'^'))
|     ||       |     ||
|     ||       |     ||
'----'`        '----'`
```

```
<terminated> Lab01 [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe  (Aug 29, 2022, 10:52:18 AM – 10:52:
Drawing the initial shape:

( ̄'^') ̄)
|     ||
|     ||
'----'`
Displaying 2 copies of the shape that are horizontally adjacent:

( ̄'^') ̄)        ( ̄'^') ̄)
|     ||        |     ||
|     ||        |     ||
'----'`         '----'`
```

```
Drawing the initial shape:

( ¯'^'))
|     ||
|     ||
'----'`
Displaying 2 copies of the shape that are horizontally adjacent:

( ¯'^'))        ( ¯'^'))
|     ||        |     ||
|     ||        |     ||
'----'`         '----'`
```

Problems Encountered

Enumerate the issues that arose from creating this solution. Include major syntax, run-time, and logical errors with their respective solutions.

I had syntax errors because I forgot to add semicolons.

Conclusions and Discussion

Sum up the lab and the results. Also discuss other ways to have solved the problem in a better way with supporting evidence.

The basic concept of the lab was to use and understand "System.out.println();". I chose to add spaces between the two shapes, I could have used "+"\t"+" between the shapes.

Additional Questions

There may be additional questions that will be provided in order to demonstrate the understanding of the subject.

1. **What is *bytecode*?**
    a. **The type of code that is the result of translating written code to a Java based code for a computer to run.**
2. **Expand RAM**
    a. **Random Access Memory**