

## **CSc 110 Lab Assignment 1 Part 2**

### **Introduction to Programming**

#### **Due:**

- Assignment 1 Part 2: Prior to your scheduled lab class during the week of September 27-October 1, 2010

#### **Learning Outcomes:**

When you have completed this assignment, you should understand:

- How to design, compile, run and check a simple and complete Java program on your own.
- The flow of data values (i.e. the effects of assignment statements).
- How to indent and document a Java program.
- How to analyze a problem to identify the input, output and intermediate values needed for computing.
- How to write and call a static method.

This project involves creating a stylized totem pole. It consists of a human at the top, followed by cycles of the following two figures: fish and raven. The figures are stylized in our system as follows:

```

\\ \ | | / / /
=====
|  O      O  |
 \      w    /
  _|      | _
(      )      (      )
 \ / | *      * \ \ /
  \ (      * ) \ /
=====
( \ | / )
  | |   | |
. - ' |   | - - .
' . . . ' . . . '

```

Write and test three static methods, one to output each of the figures that will be on the poles. The method signatures for those methods are as follows:

```
public static void raven()  
public static void fish()  
public static void human()
```

You can use the following `main()` method to test that your three static methods work correctly:

```
public static void main(String args[]) {  
  
    raven();  
    fish();  
    human();  
  
}
```

Sample output of this

Sample output of this program:

[illegible]

Press any key to continue . . .

Documentation at the beginning of each method should include: The name and purpose of the method and input and output of the method.

## 2. Calling Static Methods

- Use a `for` loop in the `main()` method to create a totem pole that has exactly one human at the top, followed by 4 repetitions of fish and raven.

Sample output of this program:

Press any key to continue . . .

More raven &  
fish go here!

Documentation at the top of the program should include: The name and purpose of the entire program and the Author and the author's ID number.

**PART 2 HAND IN:** Submit your code for step 2 (above) using the 'Assignments' link of the course web page. Your code **must** be submitted before the beginning of your scheduled lab class in the week of September 27-October 1, 2010.