Lab 01 Hello World

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# Problem

In this lab, we must create a Java Application that is able to write text to the user and take and use users input to submit out their name and the number of cats they have, depending on what the user inputs into the software

# Solution

For this code, I defined the keyboard as the scanner. From there, I had the console print out “Hello World” followed by it asking the user for its name in the following line. The string then entered in by the user in the next line was stores as a string as the name. The code then welcomed the user using there name from the string. Then, the console asks how many cats the user asks. The user then can input a number that will be stored as an integer. After the user submits an integer, the console asks how someone can live with x number of cats.

# Implementation Problems Encountered

The only problem I encountered was an error with the scanner “keyboard” saying that it was never closed, however, that did not affect how my code ran.

# Lab Report Questions

1. What is the name of the program that takes high-level code and transforms it into machine level code?

A compiler transforms high level code to machine level

1. Java creates code just before it is fully compiled to machine code.  What is this type of code called?

It becomes a .SRC or a Source file

1. What are some pros and cons of using Java?

Some pros of Java are that there is a lot of freedom for the coding using input and output functions. It also is a high-level language, so it is an easier coding environment for a user to use compared to a machine language. However, a con is there must be a compiler as the computer does not understand high-level languages.