

## **Environment Set Up Report | Object-Oriented Programming**

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*This report outlines a brief explanation of my program, my development environment setup and will also discuss the challenges I faced, along with the solutions I implemented.*

#### **Brief Program Explanation**

This is a Java program and is programmed to interact with the user by displaying a welcome message, prompting user input, displaying a fun fact about Java, and displaying the current Java version. Moreover, I added a fun and creative feature that allows the user to interact with some animal friends. This program also serves as a way to cover most aspects of what I have done in Python and attempt to do it in Java.

#### **Development Environment**

To get started with the development environment, I installed the essential tools to ensure that Java would compile properly on my device. I am using OpenJDK version 17.0.14 for Java and Visual Studio Code version 1.97.2 (already downloaded) as my IDE. Additionally, I installed the “Extension Pack for Java” which is an extension by Microsoft that we can get in Visual Studio Code, in order to simplify the configuration process. Lastly, I use Git version 2.47.0 (already downloaded) to commit my Java projects to repositories. Every project is required to be submitted via a Git repository link, and I personally think it is a great approach as it allows us to practice commits and keep our Java projects backed up on another platform.

#### **Challenges and Solution**

One of the challenges I faced while working on this project was encountering syntax errors that prevented some parts of the code from running. To fix this, I looked up documentation to figure out the right way to do it. I also got some help from AI tools like ChatGPT and GitHub Copilot, which made troubleshooting a lot easier.

Another problem I ran into was that my code wouldn't compile at all, even though the syntax was correct. I tried running it in an online compiler, and it worked, so I thought it was an issue with my Java version, but apparently that was not the case. After trying different fixes, I decided to delete the folder where I was working and create a new one, and surprisingly, that worked! It was probably just a bug in the compiler.

The last problem that felt pretty tough was figuring out how to use the classes I made. In Python, it's very simple, but in Java, it felt way more complicated. It took me some time to understand how to properly import and integrate them into the main file. Thanks to Ko Rei, who explained it to me, I was finally able to get it working.