**Maiza Falcon Rojas**

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**Assignment: Activity 1 - Tools Install and Encapsulation**

**Class: CST-239**

**Part 1 of Assignment:**

Figure 1. About Eclipse Screenshot

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Figure 2. Screenshot of console in eclipse after running HelloWorld class

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**Part 2 of Assignment:**

**Figure 3. UML Diagram**

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**Figure 4. Console when Person class is ran**

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In the Person class, an instance of the class named person is created in the main method with the initial age of 25, the name "Joel," a weight of 190.5 kg, and gender pronouns "he/him." The program then prints a statement introducing the person, indicating the name and gender pronouns. After that, the celebrateBirthday method is called, incrementing the person's age by one and printing a birthday message. Next, the eat method is invoked with the argument "Tacos de Asada," displaying a message about eating tacos. Finally, the exercise method is called, printing a message about exercising to reach a goal weight and displaying the current weight. The output reflects the sequence of actions taken on the person object, including the birthday celebration, eating, and exercising, providing insights into the simulated life events of the person.

**Part 3 of Assignment:**

**Figure 5. UML of part three**

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**Figure 6. Screenshot of car starting.**

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**Figure 7. Screenshot of Car Stop**

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**Figure 8. Screenshot of Car Restarting**

**A screenshot of a computer program

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**Part 4 of Assignment:**

**Figure 9: Screenshot of the First Breakpoint in Debugger**

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**Figure 10: Screenshot of the Second Breakpoint in Debugger**

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**Figure 11: Screenshot of the Variable in Debugger**

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**Figure 12:** Stepping Into a Function, Step Over Function, and Step Return from a function Screenshot

**A computer screen shot of a program

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**Figure 13:** Inspecting the Call Stack Screenshot

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