**Week 2**

**Question for OOP lab Batch 1**

1. Execute a “Hello World” program in eclipse
2. Write a program to satisfy the following requirements.

Requirements:

In a multistoried building, there is one elevator. There are buttons in every floor to request for the elevator. This time, there are buttons inside the elevator as well. The user enters the elevator and presses the button to indicate the destination floor.

Once a floor button is pressed, the elevator does the following:

1. Take input as source floor through the floor buttons outside the elevator
2. goes to the source floor
3. opens the door, waits and closes the door
4. Take input as destination floor through the buttons inside the elevator
5. goes to the destination floor
6. opens the door, waits and closes the door

For the sake of simplicity, let us assume that only one request is serviced at a time.

**Solutions will be assessed based on the following criteria**

* Identifying the objects and the suitable attributes and functions for them (4)
* Logic coverage and validation of inputs (4)
* Readability of the code – indentation, meaningful variable / function / class names, use of camel case, adequate commenting, having classes in separate files, using your own package, etc (2)