1. Session 3: Class and Object.

2. Intended Learning Outcome:

- a. Learn about 3 basic paradigm of Object Oriented Programming.
- b. Learn about Class and Object and constructor.

3. Expected skills:

- Can explain the basic paradigm of OOP.
- Will know the basic Idea of Encapsulation and detect encapsulation in a model.
- Will be able to describe what inheritance is.
- Will know the idea of Polymorphism.

4. Tools Required:

- a. JDK
- b. ECLIPSE / NETBEANS

5. Session Detail:

- 1. Teacher will talk about 3 basic paradigm of OOP Encapsulation, Inheritance and Polymorphism.
- 2. Teacher will give lecture on class and object and constructor.
- 3. Teacher will give basic lecture on UML diagram.
- 4. Teacher will draw some basic UML class diagram for practicing.
- 5. Teacher will show object notation.

6. Post Lab Exercise:

- a. Write codes form UML: Exercise: 3.1, 3.2, and 3.3.
- b. Draw UMLs from code: Exercise: 3.4, 3.5.

7. Further Readings:

- a. https://docs.oracle.com/javase/tutorial/java/concepts/class.html
- b. http://javabeginnerstutorial.com/core-java-tutorial/java-class-object-tutorial/
- c. Prof. Dr. Syed Akhter Hossain lecture on Class and Object.

https://www.youtube.com/watch?v=f-BAajg4NIQ