1. **Session 4: Inheritance and ArrayList**
2. **Intended Learning Outcome:**
   1. Will learn about one of the core concept of OOP - Inheritance
   2. Will learn about ArrayList implementation.
3. **Expected skills:  
   -** can explain Inheritance  
   - knows about multiple inheritance and can show inheritance in UML.  
   - can implement inheritance in code using extends keyword.  
   - Knows the difference between Array List and array  
   - can implement Array List in code.  
   - knows how to add, remove and set in Array List.
4. **Tools Required:**

a. JDK   
b. ECLIPSE / NETBEANS

1. **Session Detail:**1. Teacher will give lecture on Inheritance and give multiple real life examples on them. (45 minutes)  
   2. Teacher will draw some UML that implements Inheritance and tell the students to code them (1hour 15 minutes)  
   - Exercise \_\_\_\_  
   - Exercise \_\_\_\_  
   - Exercise \_\_\_\_   
   3. Teacher will show the difference between arrays and array list. (10 minutes)  
   4. Teacher will show different functions using array list. (50 minutes)  
   - Exercise \_\_\_\_  
   - Exercise \_\_\_\_  
   - Exercise \_\_\_\_
2. **Post Lab Exercise:**
3. **Further Readings:**
   1. **http://www.javatpoint.com/java-arraylist**