***Lab 11 –Coursework Discussion***

***Answer the following questions.***

Discussion:

1. Object oriented concepts
   1. Object/Class – Java class for business domain and object instantiation
   2. Inheritance – general class to specific class
   3. Encapsulation – Data or operation hiding ie., private keyword and get/set methods
   4. Abstraction – abstract class and abstract methods to be implemented by the subclasses.
   5. Polymorphism – overriding and overloading methods
2. UML diagram:
   1. Use case diagram – actors (primary, secondary) user-case, system boundary, association <<include>> or <<extend>>
   2. Class diagram demonstrating the object oriented concepts – Logical class (single responsibility principle) according to business domain, class relationships (association, generalisation, aggreggation or composition, realisation, dependency), data properties and operations in the class. Note: class diagram is developed in line with application design in relation to software implementation.