

## COM 102 – OBJECT ORIENTED PROGRAMMING DURING LAB Assignment#1

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- 1- Create a class called “Time” that includes three instance variables – an hour (type int), a minute (type int) and a second (type int). Then do the following tasks.
  - Write a constructor method that initializes the three instance variables. (Assume that the argument values are correct)
  - Write a set and get method for each instance variable.
  - Write a method named displayTime() that displays hour, minute and second values separated by colons(:).
  - Write a test application named TimeTest that demonstrates class Time’s capabilities (e.g. constructor, set, get and displayTime)
- 2- Create a class named “Bill” that includes four instance variables – a product number (type int), a product name (type String), a unit price (type double) and a quantity (type int). Then do the following tasks:
  - Write a constructor method that initializes the instance variables with **9999**, **“item”**, **0**, **0** respectively.
  - Write a set and get method for each instance variable.
  - Write a method calculateCost that computes the total cost of the item defined as (quantity \* unit price)
  - Write another method displayCost that displays the product number, product name, unit price, quantity and total cost.
  - Write a test application named BillTest that demonstrates class Bill’s capabilities.