

## **Lab Objects & Classes**

### **Exercise 1:**

Write in java a class called Employee. The Employee class will have four data members: Name ( a string ), Age (an int), YearsOfService (an int), and Salary (an float).

Write a java program to test your Employee class. Your program should:

Create three Employee objects; enter their name, age, YearsOfService, and Salary; and display the data for each employee.

Continuing the Employee class, calculate and display the average salary of the three employees.

Employee
+ Name : String + Age : int + YearOS: int + Salary: float

### **Exercise 2:**

Write a java program that will calculate the charge for electricity for customers. The program should use a class called **Electricity\_bill** containing the following attributes: customer account number (integer) and kilowatt-hours used (float).

Electric charges are 59 cents per kilowatt. The program should read the data from keyboard and display the following information for the customer on the screen.

customer account number

cost of electricity (float)

<b>Electricity_bill</b>
+ account: int + KWH : float + cost: float

### **Exercise 3:**

Write in java a class called Distance. The Distance class will have three data members: yards (an int), feet (an int), and inches (a float). Remember that there are 12 inches in a foot and 3 feet in a yard.

Write a java program to test your Distance class. Your program should:

Create two Distance objects Dist1 and Dist2, prompt the user to enter values for the Distance objects in yards calculate and display the correspondent distance in foot and inches

Display the attributes of a third Distance object Dist3 by adding Dist1 to Dist2.

Distance
+ yards: int + inches : float + feet: float