# Object

Practice creating user defined data types

# Problem

You are hired to create an app for a retail store to calculate the salary of the salesperson working for the company. Every salesperson has a base salary and a commission that they get. The rate for the commission is fixed at the time they start working. The more sales they have the higher the commission will be. Create a class called Employee with the following attributes (instance variables)

Class Name Employee

# List of the instance Variable: must be declared as private

* first of type String: holds the first name
* last of type String: holds the last name
* baseSalary of type double: holds the base salary
* commission of type double: holds the commission rate
* sales of type double: holds the sales made by the employee throughout the month

# Methods

## Constructor

public Employee (String f , String l, double saary,double comm) : this constructor initializes the instance variables to the given parameters and sets the instance variable sales to zero. For example: first = f; do the same thing for the rest of the instance variables

## Getter methods

Provide the getter methods for each instance variables.

public String getFirst(): returns the first name  
public String getLast(): returns the last name  
public double getBaseSalary(): returns the base salary  
public double getCommission(): returns the commission

## Setter methods

public void setBaseSalary(double salary): sets the baseSalary to salary  
public void setFirst(String f): sets the first to f

public void setLast(String l): sets last to l

public void setCommission(double comm): sets commission to com

## toString method

public String toString()

Returns a String representing the object in the form of the following example.

If the object:

Employee e1 = new Employee("Alex","Rodriguze",3000, 5);

has been created in the driver class then System.out.println(e1.toString()) should display the following

First: Alex  
Last: Rodriguze  
Base salary: 3000.0  
Sales amount: 6545.0

## Other methods

public double calculateCommission()

This method calculates the amount of the commission the salesperson gets by using the formula: sales \* commission / 100. The calculated amount should be returned.

public double getMonthlyPaid():

This method calculates the commission the person gets from the sales, then adds it to the base salary to calculate the total pay and returns it. Commission can be calculated by calling the method calculate commission that you just implemented. This amount should be added to the baseSalary. Then the total should be returned.

public void sale(double amount)

This method adds the amount to the instance variable sales. The code for this method is sales + amount;

public void reduceSale(double amount)

This method reduces the amount of the sale if a customer returns a product. The code for this method is: sales – amount;

# Driver class

Class yourDriver(15 points):

Create three objects of Employee and provide code similar to the given driver for each object. Refer to the provided driver class

## Sample output

The output of the given MyDriver is

First: Alex  
Last: Rodriguze  
Base salary: 3000.0  
Sales amount: 6545.0  
The commission you made: 327.25  
Total paid this month: 3327.25