Question 1:

* Class **Vehicle** contains:
  + A string holding the manufacture name
  + Constructor to set value for instance variables.
  + Add needed methods if necessary
* Class **Car** inherits the class Vehicle and contain:
  + A string holding the model of the car
  + A whole value holding the age
  + A double value holding the price of the car
  + Add needed methods if necessary.
  + Method **getSalePrice()** returns the price of the car discounted according to the age of the car:
    - If the car’s age is equals or greater than 5 years, discount the car by 10%
    - If the car’s age is less than 5 years, discount the price by 5%

Example output:

|  |  |  |
| --- | --- | --- |
| Enter Car manufacturer: Honda  Enter Car model: Civic 1.8  Enter Car price: 5000  Enter Car age: 4  Enter TC: 1  OUTPUT:  Honda  Honda Civic 1.8 5000.0 4 | Enter Car manufacturer: Honda  Enter Car model: Civic 1.8  Enter Car price: 6000  Enter Car age: 4  Enter TC: 2  OUTPUT:  5700.0 | Enter Car manufacturer: Honda  Enter Car model: Civic 1.8  Enter Car price: 6000  Enter Car age: 6  Enter TC: 2  OUTPUT:  5400.0 |

Question 2:

* Do not edit interface **ILaptop,** edit class **Laptop** and **MyLaptop** only
* Class **Laptop** holding the information about a laptop, the information includes:
  + A string holding the name of the laptop
  + An integer holding the amount of HDD of the laptop
  + Constructor to set value for instance variables
  + Added needed methods if necessary
* Class **MyLaptop** implements the interface **ILaptop**, complete the two methods declared in the interface:
  + **String f1(ArrayList<Laptop> a)** : Assume that the list “a” is not empty, sort the list by the name of the laptops in descending order (reverses alphabetically), then return the last laptop’s name in the list
  + **int f2(ArrayList<Laptop> a)** : Return the number of laptops that have the biggest HDD storage

Example output:

|  |  |
| --- | --- |
| Enter number of Laptop: 4  Laptop name: Dell  Size of hdd: 600  Laptop name: Asus  Size of hdd: 450  Laptop name: MacAir  Size of hdd: 500  Laptop name: HP  Size of hdd: 350  Enter test function (1-f1;2-f2): 1  OUTPUT:  Asus | Enter number of Laptop: 4  Laptop name: Dell  Size of hdd: 600  Laptop name: Asus  Size of hdd: 450  Laptop name: MacAir  Size of hdd: 500  Laptop name: HP  Size of hdd: 350  Enter test function (1-f1;2-f2): 2  OUTPUT:  1 |