Ahsanullah University of Science and Technology
Course Title: Object Oriented Programming Lab
Course Number: CSE1206

Group: A2

Create a Project Named Company (main class)

	Marks
1. Suppose you have to create a program for a Company's Common Shareholders. So first you have to create a **CommonShares** class. In this class, there will be a **double** variable named **price** which should be both **private** and **static**. Create proper constructors, getter setter methods as per your requirements.	**3**
2. Now the CommonShares will be used by Owners. So, create an **Owner** class which **inherits** the CommonShares class. Here, there will be an integer variable named ownerID. This variable should be **private** but **not static**. Create proper constructors, getter setter methods as per your requirements.	**3**
3. In the Owner class, create two static methods. double PriceRise(double percentage) which returns price + (price * percentage) double PriceFall(double percentage) which returns price - (price * percentage) You have to get the price from the superclass CommonShares class.	**4**
4. Now go to the main method and assign value to the price variable of CommonShares. **Take user inputs**. Create 2 objects of Owner and assign value to the ownerID variables. Call the PriceRise() and PriceFall() methods of the Owner class. Finally, print the ownerID, price fall/rise amount and final price for each owner. See the output given in the next page for more clarity.	**5**
Total:	**15**

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Sample Input	Sample Output
Enter Price: 250000 Enter First Owner ID: 145 Enter Second Owner ID: 136 Enter price rise percentage: 0.15 Enter price fall percentage: 0.25	Owner ID: 145 Rise Amount: 0.15 Price: 287500.0 Owner ID: 136 Fall Amount: 0.25 Price: 187500.0

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