Luxe Salon

Scenario:

A hair salon Luxe is an establishment that offers professional hair styling services for men and women. That salon provides a wide range of hair services, such as professional hair styling and texturizing. The hair salon also offers hair coloring, highlights, head and scalp treatments, and formal styling. The salon provides discount offers based on membership cards like Gold, Diamond, Platinum, etc. They need software to calculate the service charge after the discount.

As their software consultant, you can help them by developing a C# application.

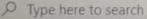
Functionalities:

In class Customer, implement the below-given properties.

Data Type	Property Name
string	CustomerName
string	MemberType
double	ServiceCharge





















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In class Customer, implement the below-given properties.

Data Type	Property Name	
string	CustomerName	
string	MemberType	
double	ServiceCharge	

In class CustomerDetails, implement the below-given methods and also Inherit the class Customer.

Method	This method is used to validate the customer membership type.	
public bool ValidateMemberType()		
	If the member type is "Gold" or "Diamond" or "Platinum", then return true. Otherwise, return false.	
public double ServiceChargeAfterDiscou	This method is used to calculate the service charge after nt() the discount and return it.	
	The calculation procedures are given below.	







Formula:

Service charge after discount = Service charge - Discount amount

Member Type	Discount amount	
Gold	5% of Service charge	
Diamond	10% of Service charge	
Platinum	15% of Service charge	

Note:

Member type is Case-sensitive.

In Program class - Main method,

- 1. Get the values from the user.
- 2. Call the ValidateMemberType method, If it returns true, then move on to step 3, If it returns false then display Invalid membership.
- 3. Use the values in method ServiceChargeAfterDiscount and display the result as per the sample output.





Note Member type is Case-sensitive. In Program class - Main method. 1. Get the values from the user. 2. Call the ValidateMemberType method, If it returns true, then move on to step 3, If it returns false then display Invalid membership. 3. Use the values in method ServiceChargeAfterDiscount and display the result as per the sample output. Note: Keep the properties, methods and classes as public. · Please read the method rules clearly.

- . Do not use Environment.Exit() to terminate the program.
- . Do not change the given code template.

Sample Input 1:

Enter the customer name

Sam

Entartha manharabin tima











Enter the membership type Gold Enter the service charge 1000 Sample Output 1: Service charge after discount is 950 Sample Input 2:

Enter the customer name

John

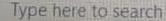
Enter the membership type

Bronze

Enter the service charge

1500















Mechtronic Customer Card

Scenario:



Mechtronic is one of the leading electronic shops in the city, known for its wide range of high-quality electronic products and excellent customer service. In order to reward their loyal customers and attract new ones, the management at Mechtronic has decided to provide new discount offers based on their card type. They need an application to calculate the total amount after the discount.

As their software consultant, you help them by developing a C# application.

Functionalities:

In class Bill, implement the below-given properties.

Data Type	Property Name
string	CustomerName
string	CardType
double	PurchaseAmount







In class Service, implement the below-given methods and also Inherit the class Bill.

Method	Description
public bool ValidateCardType()	This method is used to validate the card type. The card type should be "Classic" or "Gold" or "Platinum" or "Signature". If the card type is valid then return true. Otherwise, return false. Note: CardType is Case-sensitive.
public double CalculateTotalAmount()	This method is used to calculate the total amount after the discount based on the card type and return it. The calculation procedure is given below.

Formula:

Total amount = PurchaseAmount - (PurchaseAmount * Discount Percentage)

Formula:

Total amount = PurchaseAmount - (PurchaseAmount * Discount Percentage)

Card Type	Discount Percentage
Classic	5%
Gold	10%
Platinum	15%
Signature	20%

5

In Program class - Main method,

- 1. Get the values from the user.
- 2. Call the ValidateCardType method, If it returns true, then move on to step 3, If it returns false then display Invalid card type.
- 3. Use the values in method CalculateTotalAmount and display the result as per the sample output.

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Sample Input 1: Enter the customer name Nisha Enter the card type Gold Enter the purchased amount B 35200 Sample Output 1: Total Amount is 31680 Sample Input 2: Enter the customer name Robin Enter the card type Silver Enter the nurchased amount

Rer

Code Editor

Weather Report

Scenario:

The Regional Meteorological Center is responsible for collecting, analyzing and storing weather data for the entire region throughout the year. To ensure that the data is easily accessible and usable, RMC wants to create a weather analysis and manipulation application. This application will be used by meteorologists, researchers, and other staff members to easily retrieve and analyze data based on location and date.

You being their software consultant, help them by developing a C# application.

Functionalities:

In class Weather, implement the below-given properties.

Data Type	Properties	
string	Location	
string	Date	
int	Temperature	

string	Status	

In class Program, implement the below-given method.

public static List<Weather> WeatherList -In the code template, it is already provided.

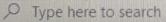
implement the features listed below.



Method	Description
public void AddWeatherDetails (string[] weatherDetails)	This method is used to add the weather details into the WeatherList.
	This method should separate the values in each string by a comma from the input array and assign those values to the Weather object, then add each object to the WeatherList.
public List <weather> ViewDetailsByLocation(string location)</weather>	This method is used to find the weather details based on the location passed as an argument.

















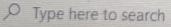
public List <weather> ViewDetailsByLocation(string location)</weather>	This method is used to find the weather details based on the location passed as an argument.
	If the location is found in the WeatherList, then add those weather details to the List and return that List. else, return an empty list.
public List <weather> ViewDetailsByDate(string date)</weather>	This method is used to find the weather details based on the date pated as an argument.
	If the date is found in the WeatherList, then add those weather details to the List and return that List. else, return an empty list.

In Program class, Main method,

- 1. Get the values from the user.
- 2. Call the methods accordingly and display the result.
 - If the ViewDetailsByLocation method returns an empty list, then display "Location is not found".

















Sample Input and Output:

- 1. Add Weather Details
- 2. View Details By Location
- 3. View Details By Date
- 4. Exit

Enter the choice

Enter the number of entries

3

Miami, 25/01/2023, 20, Partly Cloud

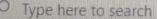
Miami,26/01/2023,33,Mostly Sunny

Berth,25/01/2023,25,Sunny

- 1. Add Weather Details
- 2. View Details By Location

2 Way Datalla Bu Data

















3. View Details By Date

4. Exit

Enter the choice

2

Enter the location

Miami

Do

Location	Date	Temperature	Status
Miami	25/01/2023	20	Partly Cloud
Miami	26/01/2023	33	Mostly Sunny

1. Add Weather Details

2. View Details By Location

3. View Details By Date

4. Exit

