## Job Hunt

#### Scenario:

Job Hunt is a popular job search portal that allows job seekers to search and apply for jobs from a variety of companies and industries. However, the management team at Job Hunt has identified a need for an additional application that can analyse and manipulate job details based on the role that job seekers are interested in. The management team wants the new application to meet the needs of both job seekers and the company.

You being their software consultant help them with the process by developing a C# application.

#### Functionalities:

in the class Program, implement the below-given method.

public static Dictionary<string,string> VacancyDetails -In the code template, it is already provided.

implement the features listed below

Method	Description
public void AddVacancyDetails	This method is used to add the vacancy details into the
(string[] vacancy)	VacancyDetails dictionary.

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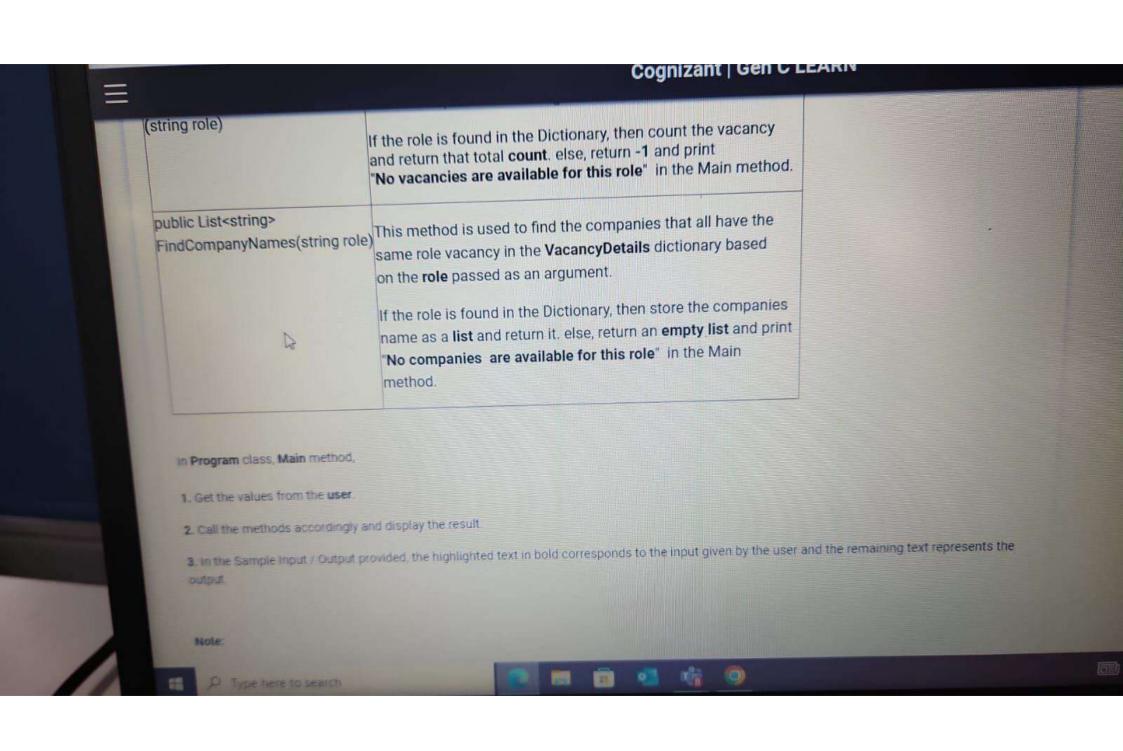
### Functionalities:

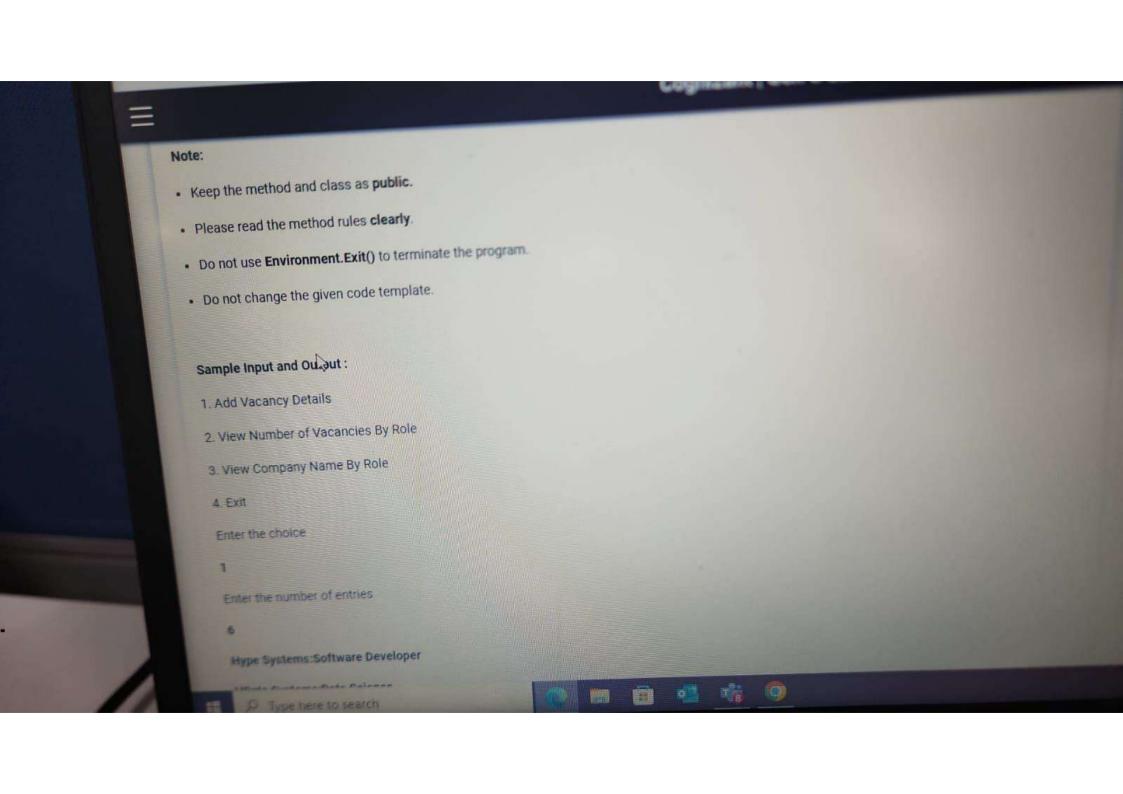
In the class Program, implement the below-given method.

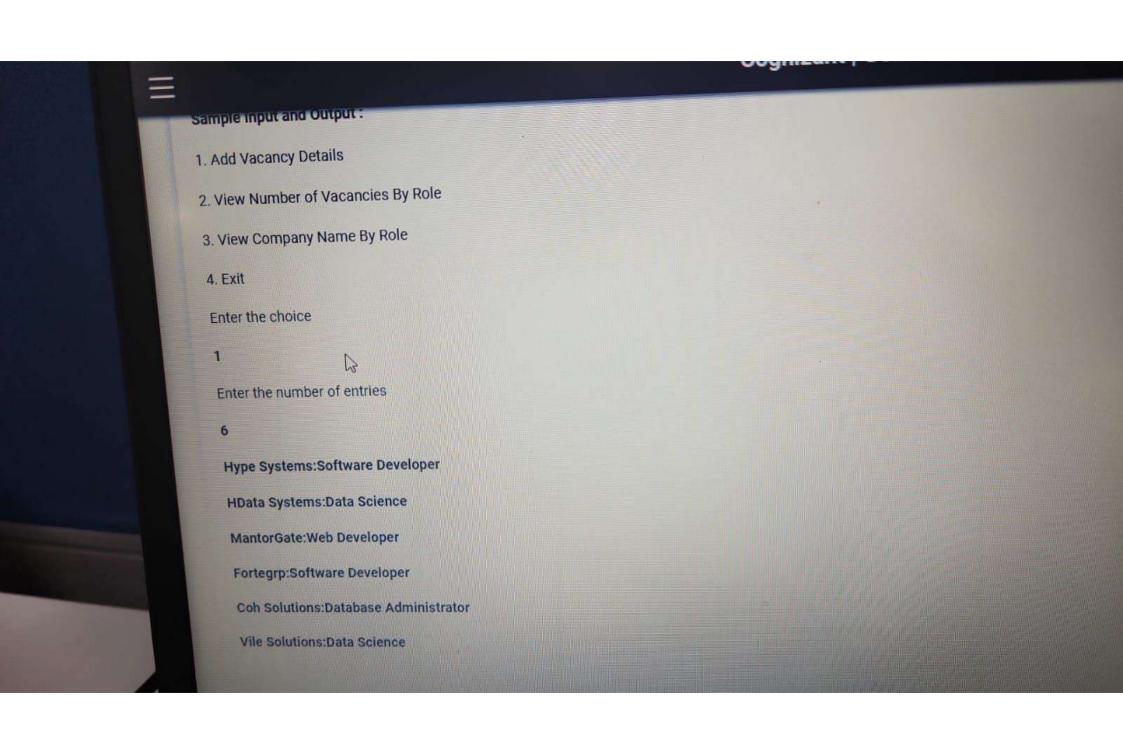
public static Dictionary<string, string> VacancyDetails -In the code template, it is already provided.

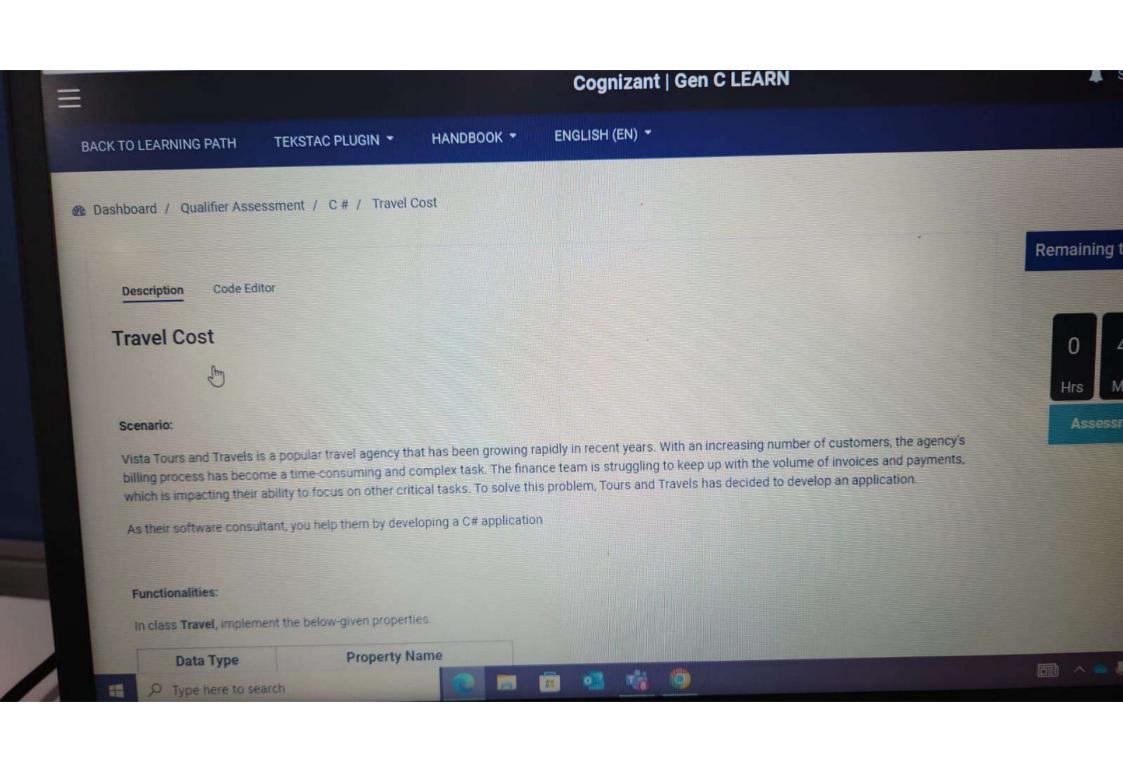
implement the features listed below

Method	Description
(string( ) vacancy)	This method is used to add the vacancy details into the VacancyDetails dictionary.  This method should separate the values in each string by a colon(:) from the input array and store them in a Dictionary.
public int FindTheNumberOfVacancies (string role)	This method is used to find the number of the vacancy based on the role passed as an argument.  If the role is found in the Dictionary, then count the vacancy and return that total count, else, return -1 and print.  No vacancies are available for this role in the Main method.
public List-string> FindCompanyfisames(string to	This method is used to find the companies that all have the same role vacancy in the VacancyDetails dictionary based on the role passed as an argument.









Vista Tours and Travels is a popular travel agency that has been growing rapidly in recent years. With an increasing number of customers, the agency's billing process has become a time-consuming and complex task. The finance team is struggling to keep up with the volume of invoices and payments, which is impacting their ability to focus on other critical tasks. To solve this problem, Tours and Travels has decided to develop an application.

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

#### **Functionalities**:

In class Travel, implement the below-given properties

Data Type	Property Name
string	Travelid
string	DeparturePlace
string	DestinationPlace
ant	NoOfDays
double	CostPetDay

In class Service, implement the below-given methods and also inherit the class Travel.

Method

Description





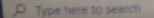


NoOfDays int CostPerDay double

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

Method	Description
public bool ValidateTravelld(string travelld)	This method is used to validate the travel Id passed as an argument.  The travel Id should consist of 7 characters: the first three characters should be the first three letters of the departure place in uppercase, followed by a forward slash /, and the last three characters should be the first three characters of the destination place in uppercase.  If the above conditions are satisfied, then return
	true. Otherwise return false.
public double CalculateDiscountedCost()	This method is used to calculate the discounted cost return it.





















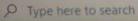
The travel ld should consist of 7 characters: the first three characters should be the first three letters of the departure place in uppercase, followed by a forward slash /, and the last three characters should be the first three characters of the destination place in uppercase. If the above conditions are satisfied, then return true. Otherwise return false. This method is used to calculate the discounted public double [figlculateDiscountedCost() cost return it. Refer to the below formula and table to calculate the discounted cost.

#### Formula:

Discounted Cost = (CostPerDay \* NoOfDays) - ((CostPerDay \* NoOfDays) \* DiscountPercentage)

NoOfDays	Discount% on the package cost
<=5	0% (No discount)



















	und Carermoe return raise.
public double CalculateDiscountedCost()	This method is used to calculate the discounted cost return it.
	Refer to the below formula and table to calculate the discounted cost.

#### Formula:

Discounted Cost - (CostPerDay \* NoOfDays) - ((CostPerDay \* NoOfDays) \* DiscountPercentage)

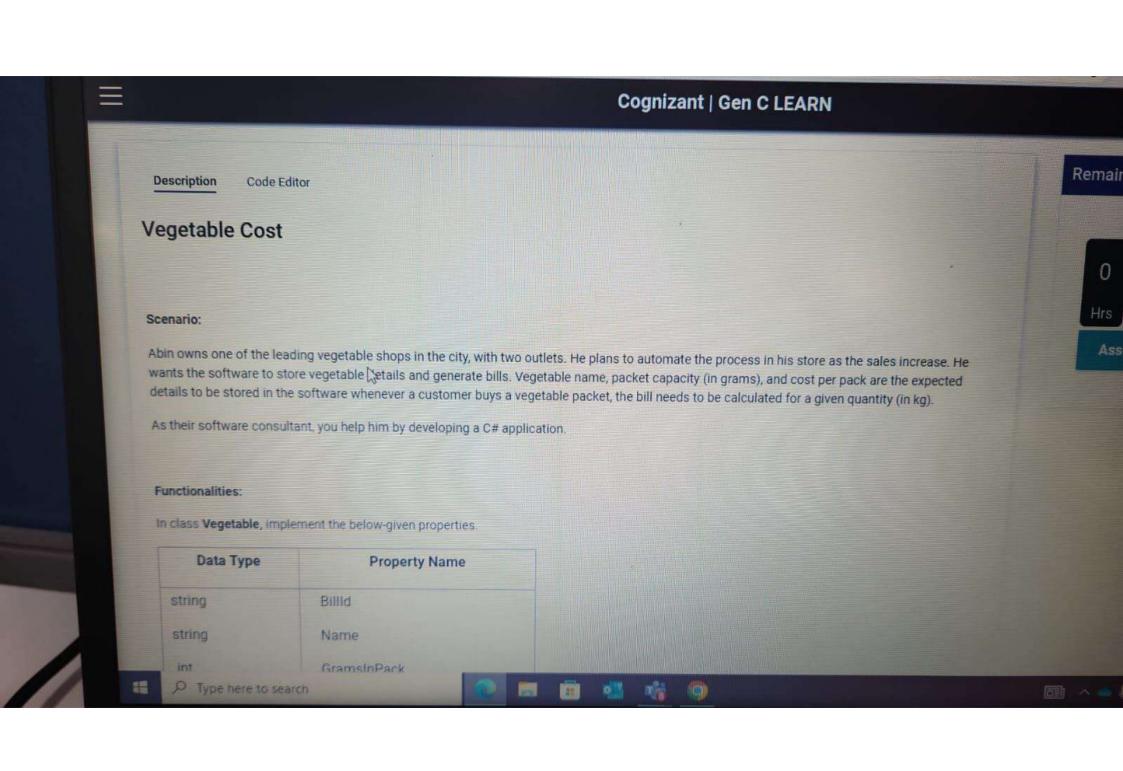
NoOfDays	Discount% on the package cost
×+5	0% (No discount)
>5 and <=8	
>6 and <=10	5%

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-10	7%	
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S. Car the Velocity  S. Car th	Department Seed on Seed on Seed Seed Seed Seed on Seed Seed Seed Seed Seed Seed Seed See	

3. Use the values in method CalculateDiscountedCost 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 travel id CHI/DEN Enter the departure place Chicago Enter the destination place Denver Enter the number of days D Type here to search

Enter the travel id CHI/DEN Enter the departure place Chicago Enter the destination place Denver Enter the number of days 15 Enter the cost per day 3000 Sample Output 1: Discounted Cost 41850 Sample Input 2: Enter the travel id 123/BOS O Type here to search

# Cognizant | Gen C LEAKN Sample Input 2: Enter the travel id 123/BOS Enter the departure place New York Enter the destination place Boston Enter the number of days 15 Enter the cost per day 3000 Sample Output 2: Invalid travel id





Data Type	Property Name
string	Billid
string	Name
int	GramsInPack
double	CostPerPack



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

Method	Description
public bool ValidateBillId()	This method is used to validate the bill id.
	The bill id should consist of 7 characters, the first three characters should be digits, followed by a hyphen (-) and the last three characters should be alphabets in upper case.  If the above conditions are satisfied, then return true. Otherwise return false.
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The bill id should consist of 7 characters, the first three characters should be digits, followed by a hyphen (-) and the last three characters should be alphabets in upper case. If the above conditions are satisfied, then return true. Otherwise return false. This method is used to calculate the total cost public double CalculateTotalCost(float and return the cost. quantity) Refer to the below formula to calculate the total cost.

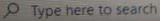
#### Formula:

Total Cost = (CostPerPack \* (quantity \* 1000) / GramsInPack)

In Program class - Main method,

- 1. Get the BillId value from the user
- 2. Call the ValidateBillId method, If it returns true, then get the Name, GramsInPack, CostPerPack and quantity values from the user and move on to step 3, If it returns false then display Invalid bill id.

















#### Formula:

Total Cost = (CostPerPack \* (quantity \* 1000) / GramsInPack)

In Program class - Main method,

- 1. Get the BillId value from the user.
- 2. Call the ValidateBillId method, If it returns true, then get the Name, GramsInPack, CostPerPack and quantity values from the user and move on to step 3, If it returns false then display Invalid bill id.
- 3. Use the values in method Calculate FotalCost 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 bill id

123-ABC

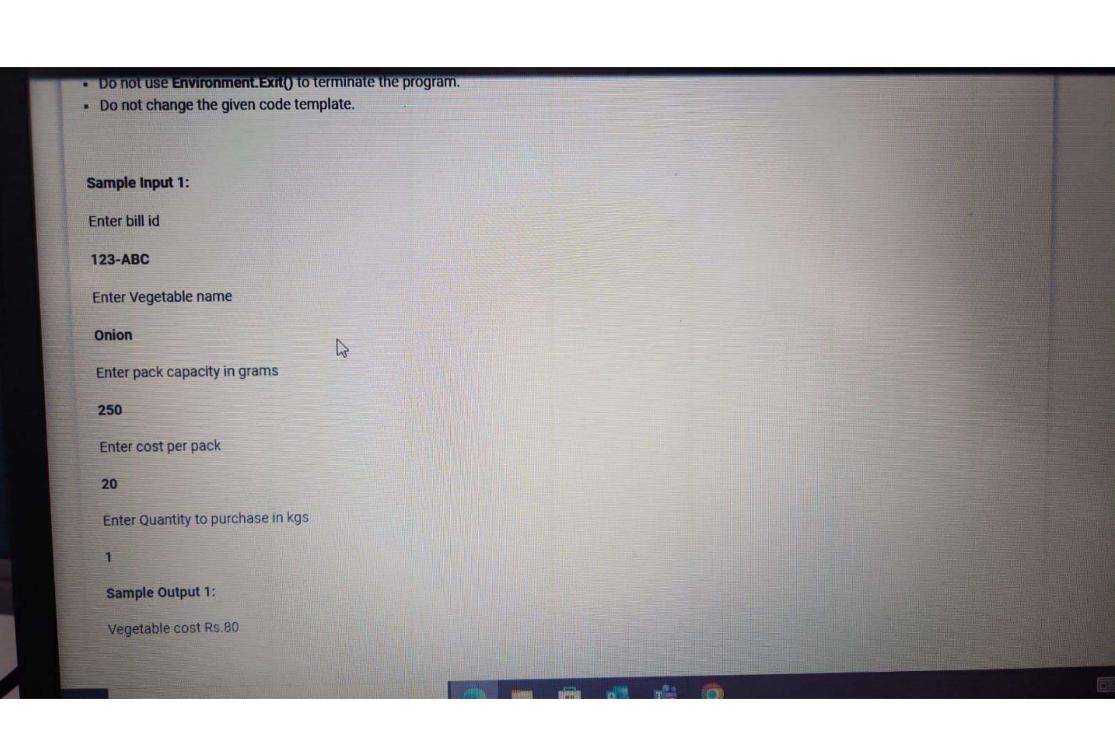












Enter cost per pack 20 Enter Quantity to purchase in kgs Sample Output 1: Vegetable cost Rs.80 Sample Input 2: Enter bill id A23/AB2 Sample Output 2: Invalid bill id Visit the GenC LEARN blog for 'How To