

Qualifier Assessment

KBA

C#

ANSI SQL

Description

Code Editor

Pixel Point

Scenario:

Pixel Point is a well-known e-service shop in the city that specialises in offering government insurance schemes to its customers. They have a wide variety of plans available, each with its own unique benefits and coverage options.

Recently, the management at Pixel Point has decided to improve their customer service by implementing a new system that allows customers to easily find out the monthly amount for a specific scheme based on its name.

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

Functionalities:

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

Remaining time

0

42

59

Hrs

Mins

Secs

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Functionalities:

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

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

implement the features listed below.

Method	Description
<code>public void AddSchemeDetails (string[] scheme)</code>	This method is used to add the scheme details into the SchemeDetails dictionary. This method should separate the values in each string by a colon(:) from the input array and store them in a Dictionary .
<code>public double FindSchemeMonthlyAmount (String schemeName)</code>	This method is used to find the





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```
public void AddSchemeDetails (string[ ] scheme)
```

This method is used to add the scheme details into the **SchemeDetails** dictionary.

This method should separate the values in each string by a **colon(:)** from the input array and store them in a **Dictionary**.

```
public double FindSchemeMonthlyAmount (String  
schemeName)
```



This method is used to find the monthly amount of the scheme based on the **schemeName** passed as an argument.

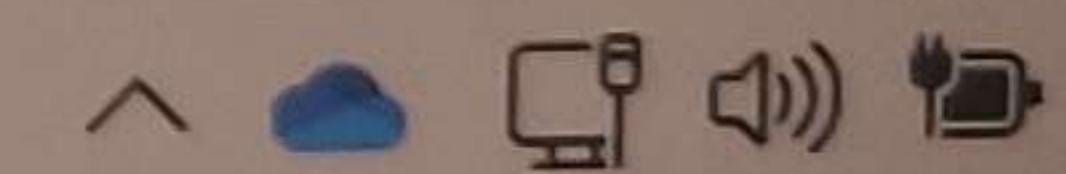
If the scheme name is found in the Dictionary, then return that **scheme amount**. else, return -1 and print "**No schemes are available**" in the Main method.

```
public List<string> FindLowestMonthlyAmountScheme()
```

This method is used to find the lowest amount scheme from



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```
public double FindSchemeMonthlyAmount (String  
schemeName)
```

This method is used to find the monthly amount of the scheme based on the **schemeName** passed as an argument.

If the scheme name is found in the Dictionary, then return that scheme **amount**. else, return -1 and print "**No schemes are available**" in the Main method.

```
public List<string> FindLowestMonthlyAmountScheme()
```

This method is used to find the lowest amount scheme from the **SchemeDetails** dictionary, then store the scheme name as a **list** and return it.

Note: If the lowest amount has more than one scheme, then consider that all are the lowest amount scheme and they need to be added to the list.



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In **Program** class, **Main** method,

1. Get the values from the **user**.
2. Call the methods accordingly and display the result.
3. In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user and the remaining text represents the output.

Note:

- Keep the method and **class** 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 and Output :

1. Add Scheme Details
2. View Monthly Amount Based on Name



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Sample Input and Output :

1. Add Scheme Details
2. View Monthly Amount Based on Name
3. View Schemes With Lowest Monthly Amount
4. Exit

Enter the choice

1

Enter the number of entries

5

The Ayushman Bharat:5200

National Pension System:6000

The Employees' State Insurance Scheme:8000

The Central Government Health Scheme:4800

The Pradhan Mantri Suraksha Bima Yojana:4800



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National Pension System:6000

The Employees' State Insurance Scheme:8000

The Central Government Health Scheme:4800

The Pradhan Mantri Suraksha Bima Yojana:4800

1. Add Scheme Details
2. View Monthly Amount Based on Name
3. View Schemes With Lowest Monthly Amount
4. Exit

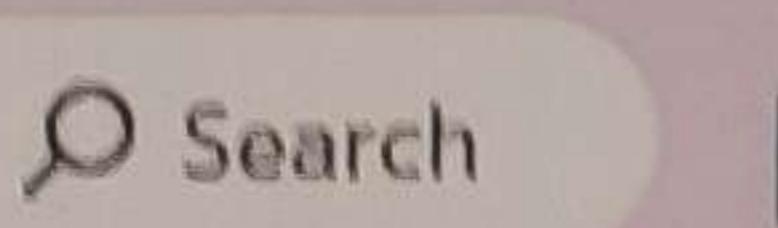
Enter the choice

2

Enter the scheme name needs to be searched

Atal Pension Yojana

No schemes are available



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Enter the scheme name needs to be searched

Atal Pension Yojana

No schemes are available

1. Add Scheme Details

2. View Monthly Amount Based on Name

3. View Schemes With Lowest Monthly Amount

4. Exit

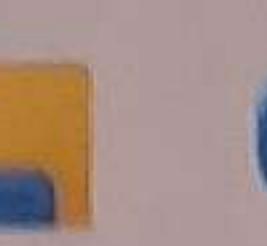
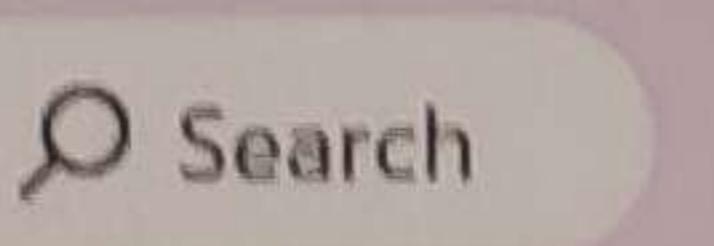
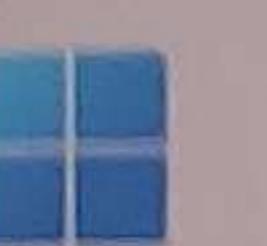
Enter the choice

2

Enter the scheme name needs to be searched

The Employees' State Insurance Scheme

Amount is : 8000



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Enter the choice

2

Enter the scheme name needs to be searched

The Employees' State Insurance Scheme

Amount is : 8000

1. Add Scheme Details

2. View Monthly Amount Based on Name

3. View Schemes With Lowest Monthly Amount

4. Exit

Enter the choice

3

Schemes with the lowest monthly amount are:

The Central Government Health Scheme

The Deendayal Mantri Suraksha Bima Yojana



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3. View Schemes With Lowest Monthly Amount

4. Exit

Enter the choice

3

Schemes with the lowest monthly amount are:

The Central Government Health Scheme

The Pradhan Mantri Suraksha Bima Yojana

1. Add Scheme Details

2. View Monthly Amount Based on Name

3. View Schemes With Lowest Monthly Amount

4. Exit

Enter the choice

4

Thank you

04:19 PM
19-04-2023

Qualifier Assessment Central Block

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BACK TO LEARNING PATH TEKSTAC PLUGIN HANDBOOK ENGLISH (EN)

Dashboard / Qualifier Assessment / C # / Central Blood Bank

Description Code Editor

Central Blood Bank

Scenario:

The Central Blood Bank is a nonprofit organization that collects and distributes blood to hospitals and other healthcare facilities in the surrounding area. The organization has recently received a grant to expand its operations and improve its technology. The team is planning on implementing a new software medical records system to track blood donations and inventory.

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

Functionalities:

Remaining time

0 Hrs 41 Mins 32 Secs

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Functionalities:

In class Program, implement the below-given method.

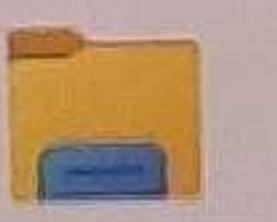
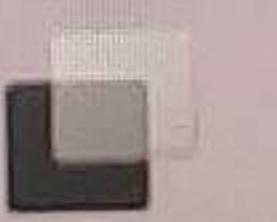
public static Dictionary<string, string> donorDetails -In the code template, it is already provided.

implement the features listed below.

Method	Description
<pre>public int FindNumberOfRecords(string bloodGroup)</pre>	<p>This method is used to find the count by bloodGroup. If the bloodGroup is available in the donorDetails, it should return that bloodGroup count.</p> <p>If the bloodGroup is not available in donorDetails, then return 0.</p>
<pre>public List<string> FindDonorNames(string bloodGroup)</pre>	<p>This method is used to find the donor names based on the bloodGroup. If the bloodGroup is available in the donorDetails, it should return that donor's name as List.</p> <p>If the bloodGroup is not available in</p>



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If the **bloodGroup** is not available in **donorDetails** , then return 0.

```
public List<string>
FindDonorNames(string
bloodGroup)
```

This method is used to find the donor names based on the **bloodGroup** .

If the **bloodGroup** is available in the **donorDetails** , it should return that donor's name as **List**.

If the **bloodGroup** is not available in the **donorDetails** , it should return an empty **List**.

If this method returns an empty **List** , then print "**Invalid blood group**" in **Main()** method.

```
public Dictionary<string,
string> SortByName()
```

This method is used to display all the donor details available in the **donorDetails** in **ascending order** by donor name.

The result should be a **Dictionary**.





Qualifier Assessment

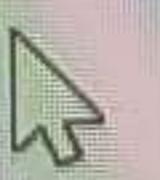
KBA

C #

ANSI SQL

In **Program** class, **Main** method,

1. Get the values from the **user**.
2. Call the methods accordingly and display the result.
3. In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user and the remaining text represents the output.

**Note:**

- Keep the method and class 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 / Output:

1. Find number of records

2. Find donor by blood group





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Sample Input / Output:

1. Find number of records
2. Find donor by blood group
3. Sort donors by name
4. Exit

Enter your choice

1

Enter the blood group

O+

The count is : 2

1. Find number of records
2. Find donor by blood group

3. Sort donors by name



Search





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ANSI SQL

Enter the blood group

O+

The count is : 2

1. Find number of records

2. Find donor by blood group

3. Sort donors by name

4. Exit

Enter your choice

2

Enter the blood group

O+

The O+ donors are :

Sam

Rosy



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Enter your choice

2

Enter the blood group

O+

The O+ donors are :

Sam

Rosy

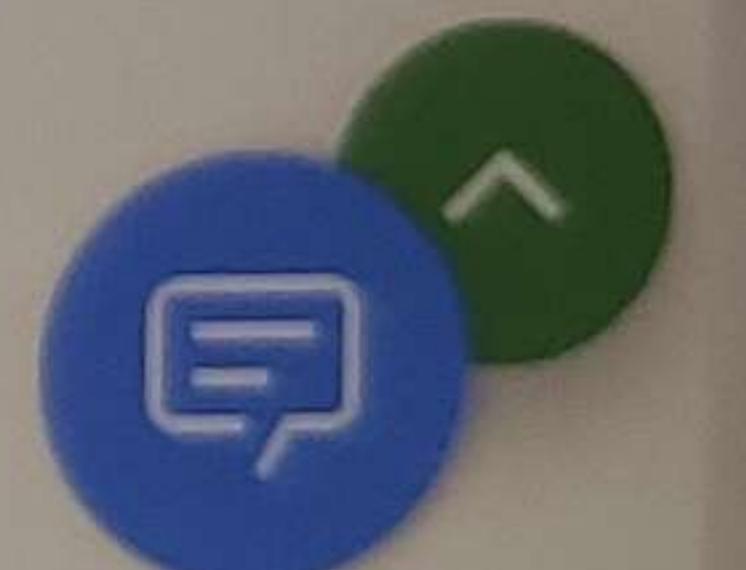


1. Find number of records
2. Find donor by blood group
3. Sort donors by name
4. Exit

Enter your choice

2

Enter the blood group



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Qualifier Assessment Central Block

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1. Find number of records

2. Find donor by blood group

3. Sort donors by name

4. Exit

Enter your choice

2

Enter the blood group

A+

Invalid blood group

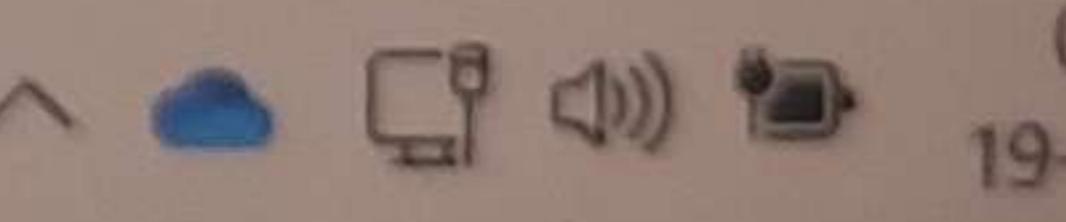
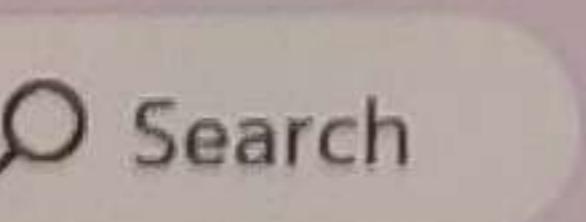
1. Find number of records

2. Find donor by blood group

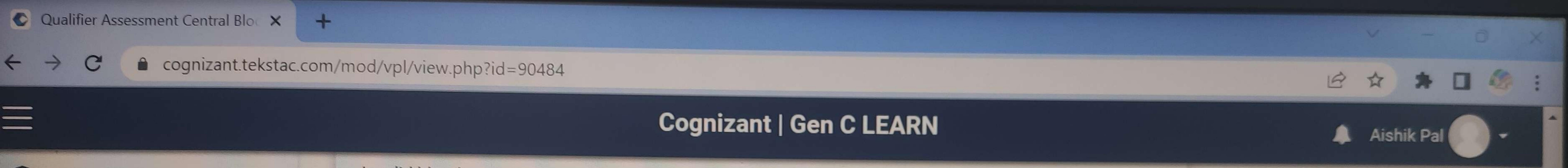
3. Sort donors by name

4. Exit

Enter your choice



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Invalid blood group

1. Find number of records
2. Find donor by blood group
3. Sort donors by name
4. Exit

Enter your choice

3

John AB-

Peter AB+

Rosy O+

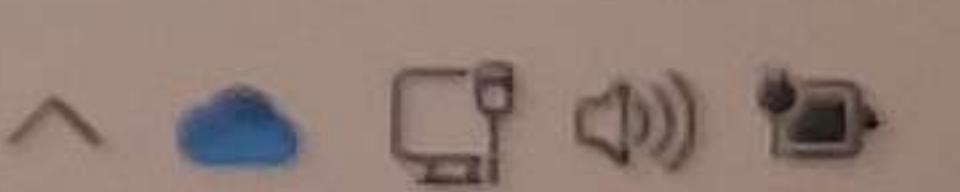
Sam O+

Vin B+

1. Find number of records



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John AB-

Peter AB+

Rosy O+

Sam O+

Vin B+

1. Find number of records

2. Find donor by blood group

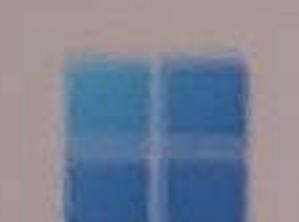
3. Sort donors by name

4. Exit

Enter your choice

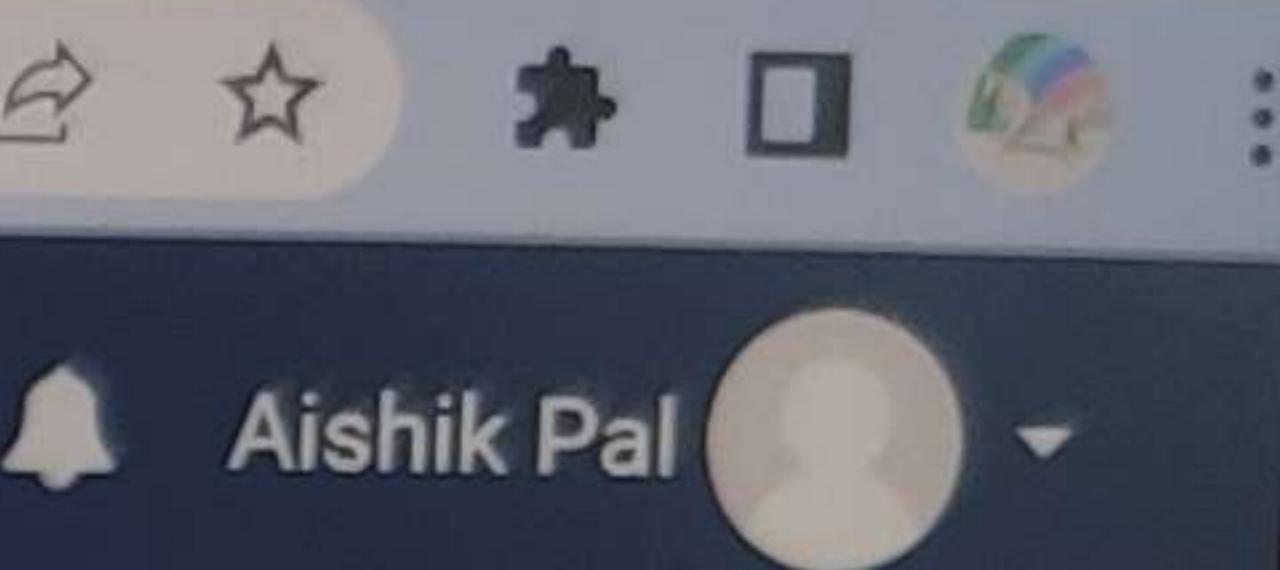
4

Thank You



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HANDBOOK

ENGLISH (EN)

Dashboard / Qualifier Assessment / C # / The Plant Haven

Description

Code Editor

The Plant Haven

Scenario:

As the sun shines brightly on this picturesque spring day, Maria, the proprietor of The Plant Haven, a thriving plant store in the heart of the town, busies herself with curating a diverse array of botanical offerings for her valued customers. From colorful annuals and hardy perennials to fragrant herbs and nutritious vegetables, she has something for everyone. To sweeten the deal, she even offers generous discounts to her patrons. As the day progresses, Maria is delighted by the steady stream of customers who come through her doors. Recognizing the need to streamline her operations, she decides to invest in software that can accurately calculate the cost of her plants after discounts have been applied.

You being her software consultant, help her by developing a C# application

Remaining time

0

40

5

Hrs

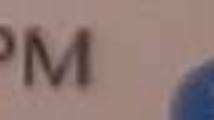
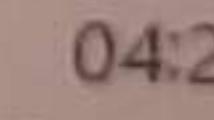
Mins

Secs

Assessment Home



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ThinkPad

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You being her software consultant, help her by developing a C# application

Functionalities:

In class **Plant**, implement the below-given properties.

Datatype	Property Name
string	PlantName
int	NoOfSapling
string	Category
int	PricePerSapling

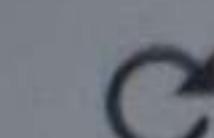
In class **PlantUtility**, implement the below-given methods and also **Inherit** class **Plant**.

Method	Description
public Plant ExtractDetails(string a colon(:) - separated input string)	This method is used to extract plant details from a colon(:) - separated input string and assign the values



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In class **PlantUtility**, implement the below-given methods and also **Inherit** class **Plant**.

Method	Description
<code>public Plant ExtractDetails(string plantDetails)</code>	<p>This method is used to extract plant details from a colon(:) - separated input string and assign the values to Plant class object and return that.</p> <p>In this method, pass the plant details as an argument based on the below-given string format.</p> <p><PlantName:NoOfSapling:Category:PricePerSapling></p>
<code>public double CalculateCost()</code>	<p>This method is used to calculate the cost of the plant after the discount and return it as a double datatype.</p> <p>Total Amount = NoOfSapling * PricePerSapling</p> <p>Refer to the below procedure to calculate cost after the discount.</p>

Formula :





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Formula :

Cost after the discount = Total Amount - Discount

Total Amount	Discount
> 500 to <=1000	10 % of Total Amount
Above 1000	20 % of Total Amount
<=500	No discount

In **Program** class - **Main** method,

1. Get the input details from the **user**.
2. Call the **ExtractDetails** method by using the input values.
3. Call the **CalculateCost** method and finally display all the details as per the output given.

Note:

- Keep the properties, methods and classes as **public**.
- Please read the method rules **clearly**.



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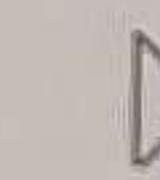


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3. Call the **CalculateCost** method and finally display all the details as per the output given.

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 plant details

Sunflower:10:flowering:70

Sample Output 1:

Plant name is : Sunflower

No of sapling is : 10

Category : flowering



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ANSI SQL

Sunflower:10:flowering:70

Sample Output 1:

Plant name is : Sunflower

No of sapling is : 10

Category : flowering

Price per sapling : 70

Total cost is : 630



Sample Input 2:

Enter the plant details

Lavender:5:herb:30

Sample Output 2:

Plant name is : Lavender



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Sample Input 2:

Enter the plant details

Lavender:5:herb:30



Sample Output 2:

Plant name is : Lavender

No of sapling is : 5

Category : herb

Price per sapling : 30

Total cost is : 150

