

# Isaac University

## Scenario:

Isaac University is renowned for its outstanding academic programs and supportive learning environment, making it the top-ranked university in the city. Currently, the university is in the midst of its student admission process and is seeking software to efficiently manage student details. As an independent institution, Isaac University is committed to providing students with the highest quality education and resources to help them succeed.

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

## Functionalities:

In class **Program**,

**public static List<Student> StudentList** - In the code template, it is already provided.

In class **Student**, implement the below-given properties and methods.

Data Type	Properties
string	StudentName
string	DOB
long	PhoneNo
string	City

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string	City
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Method	Description
public List<Student> AddStudentDetails(string name, string dob, long phone, string city)	This method is used to add the student details into the <b>StudentList</b> .  In this method pass the student name, date of birth, phone number and city as an argument and add the details in the <b>StudentList</b> and return it.
public string GetStudentName(long phone)	This method is used to get the student name from the <b>StudentList</b> based on phone number and return that student <b>name</b> .
public List<Student> RemoveStudentDetails(long phone)	This method is used to remove the student details from the <b>StudentList</b> based on the student phone number and return the remaining student details.

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 properties, methods and class as **public**.
- Please read the method rules **clearly**.
- Do not use **Environment.Exit()** to terminate the program



- Keep the properties, methods 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:

Choose the option

1. Add the student details
2. Get student name by phone
3. Remove student details
4. Exit

1

Enter the student name

Sam

Enter date of birth

12/02/2000

Enter the phone number

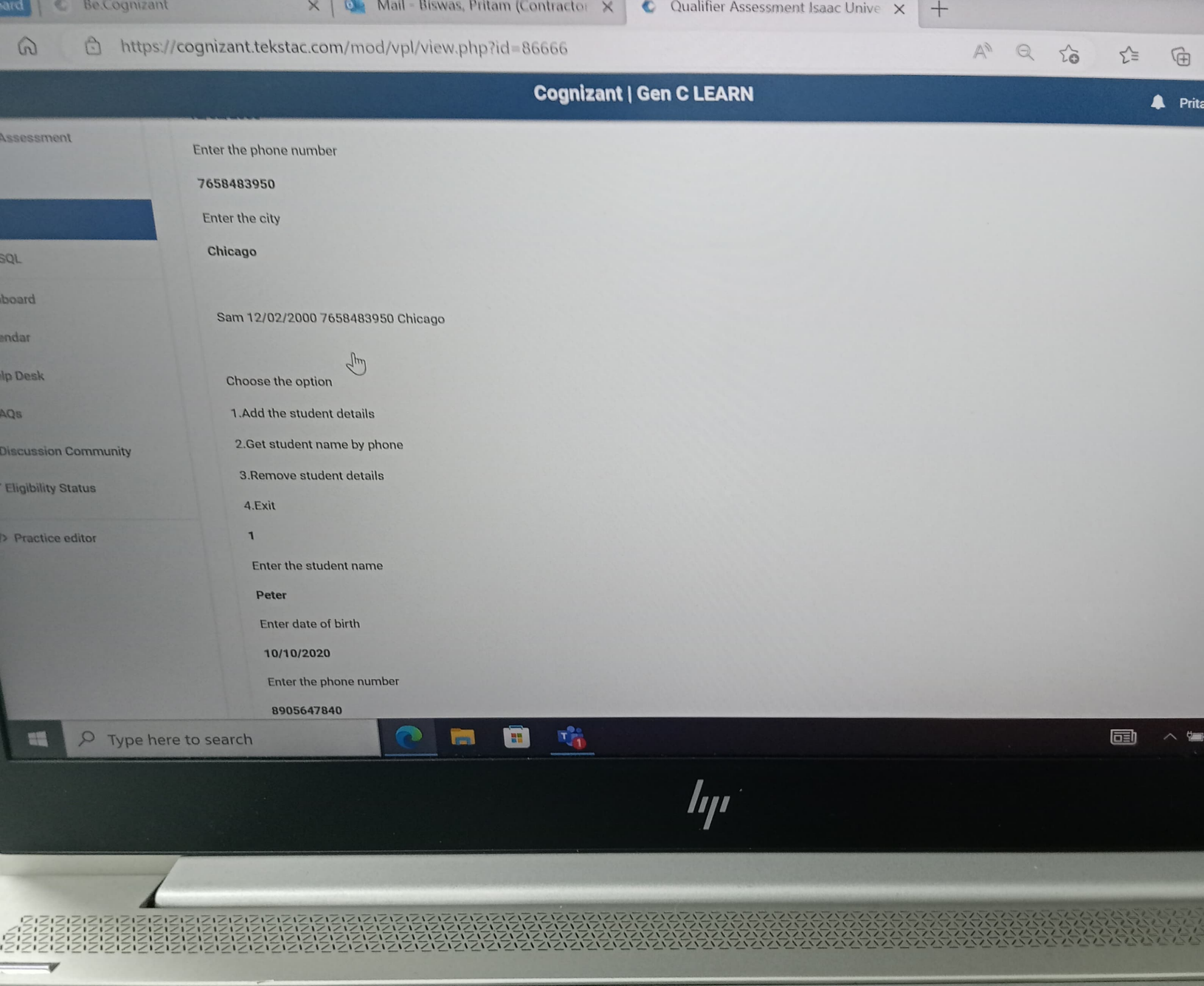
7658483950

Enter the city



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Assessment

Enter the phone number

7658483950

Enter the city

Chicago

Sam 12/02/2000 7658483950 Chicago

Choose the option

- 1.Add the student details
- 2.Get student name by phone
- 3.Remove student details
- 4.Exit

1

Enter the student name

Peter

Enter date of birth

10/10/2020

Enter the phone number

8905647840



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Enter date of birth

10/10/2020

Enter the phone number

8905647840

Enter the city

Denver

Sam 12/02/2000 7658483950 Chicago

Peter 10/10/2020 8905647840 Denver

Choose the option

1.Add the student details

2.Get student name by phone

3.Remove student details

4.Exit

2

Enter the phone number

7658483950

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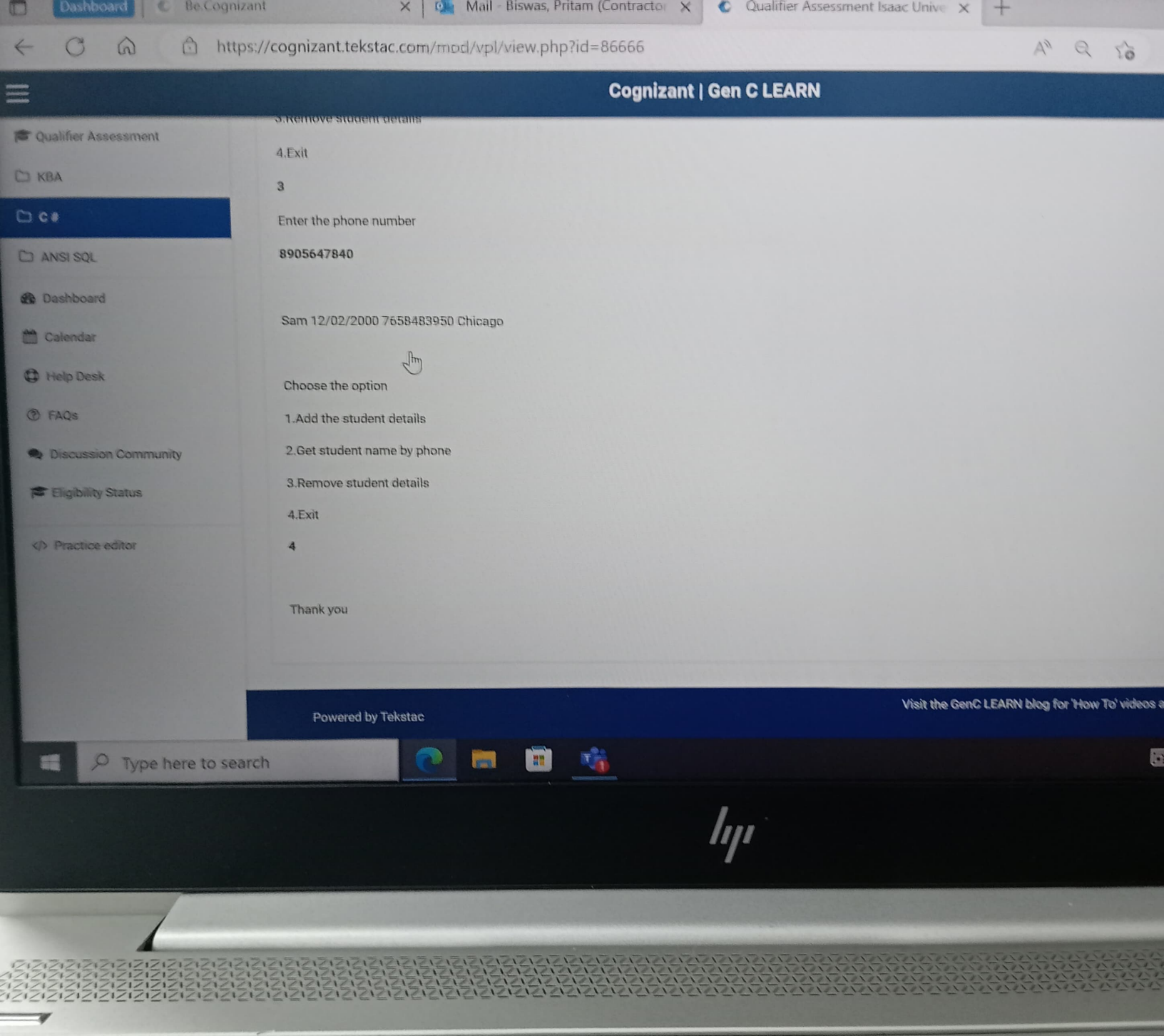
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3.Remove student details

4.Exit

3

Enter the phone number

8905647840

Sam 12/02/2000 7658483950 Chicago

Choose the option

1.Add the student details

2.Get student name by phone

3.Remove student details

4.Exit

4

Thank you

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## Deutsche Bank

### Scenario:

Deutsche Bank is a leading global investment bank with a strong and profitable private client franchise. A leader in Germany and Europe, the Bank is continuously growing in North America, Asia, and key emerging markets. The bank provides loans for customers with home loans, business loans, etc. They need software to calculate the annual loan interest amount.

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

### Functionalities:

In class **Customer**, implement the below-given properties in **public**.

Class	Properties
Customer	string CustomerName
	long SSN
	string City
	double LoanAmount
	int NoOfYears

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

Method	Description
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In class **CustomerUtility**, implement the below-given methods and also **Inherit** the class **Customer**.

Method	Description
public string GenerateTokenNumber()	<p>This method is used to generate the token number with the following instructions and return that <b>number</b>.</p> <p><b>Instructions :</b></p> <ol style="list-style-type: none"><li>1. Get the first two characters from the <b>CustomerName</b> and convert those characters into uppercase.</li><li>2. Get the third character from the customer <b>City</b> and convert that character into uppercase.</li><li>3. Get the last two <b>SSN</b> (social security number).</li></ol> <p>Finally concatenate all those items and return as <b>string</b>.</p> <p><b>For Example:</b></p> <p>CustomerName : <b>Sam</b></p> <p>City : <b>Chicago</b></p> <p>SSN : <b>123456789</b></p> <p><b>Token number is : SAI89</b></p>
public double CalculateAnnualInterest(string loanType)	<p>This method is used to calculate the annual interest based on the <b>loanType</b> as an argument and return it.</p> <p>The calculation procedures are given below.</p>



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	<p>CustomerName : Sam</p> <p>City : Chicago</p> <p>SSN : 123456789</p> <p>Token number is : SAI89</p>
<p>public double</p> <p>CalculateAnnualInterest(string loanType)</p>	<p>This method is used to calculate the annual interest based on the <b>loanType</b> as an argument and return it.</p> <p>The calculation procedures are given below.</p> <p>Note:</p> <p>Get the <b>Rate of interest</b> based on the <b>Loan Type</b>.</p>

Formula :

Annual Interest = LoanAmount \* Rate of interest \* NoOfYears

Loan Type	Rate of interest
Home	3%
Business	5%
Gold	2%

Note:

Loan type is Case-sensitive.



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**Note:**

**Loan type** is **Case-sensitive**.

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

1. Get the values from the **user**.
2. Use the values in method **GenerateTokenNumber**.

**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 :**

Enter the customer name

**Peter**

Enter SSN(social security number)

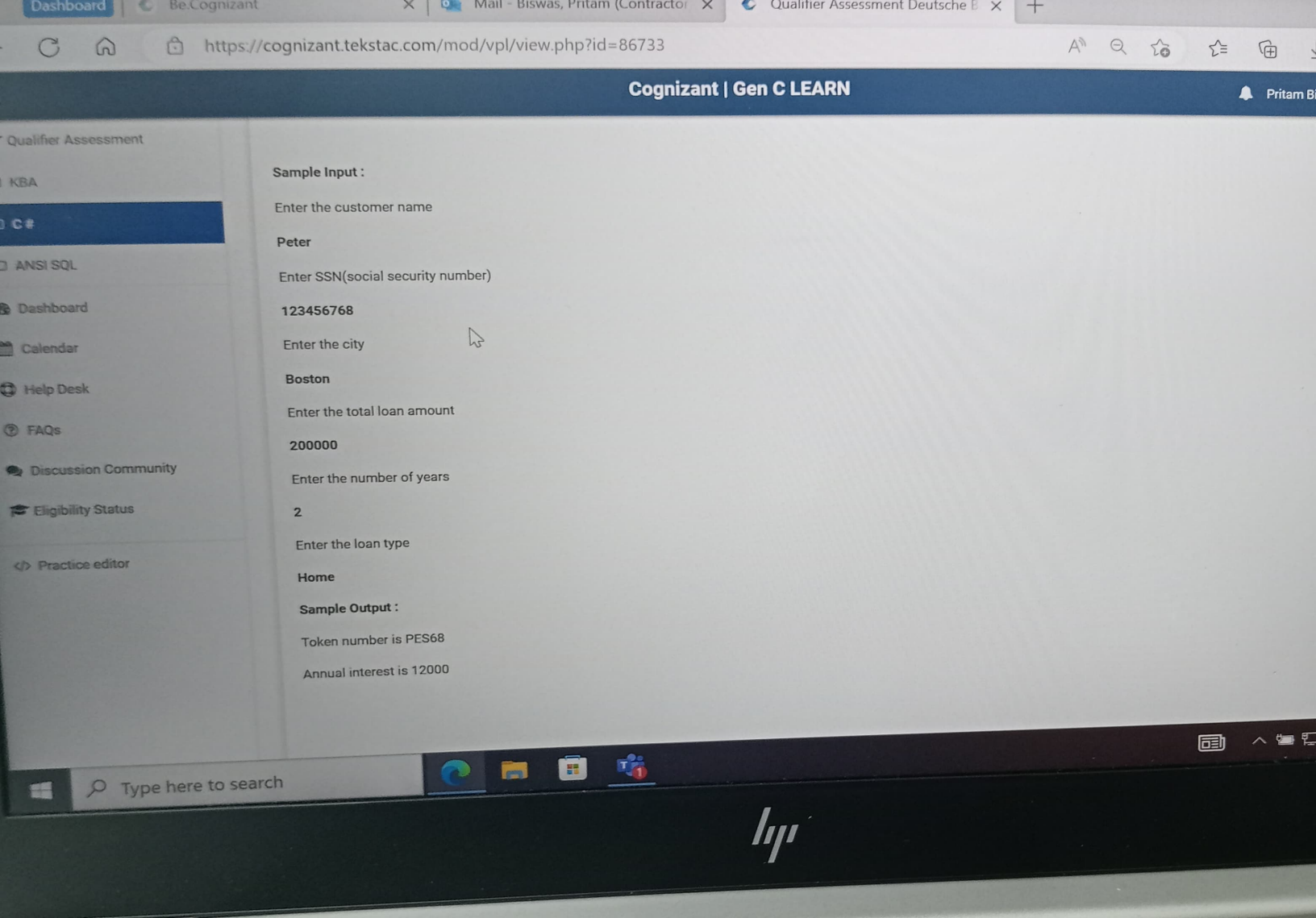
**123456768**

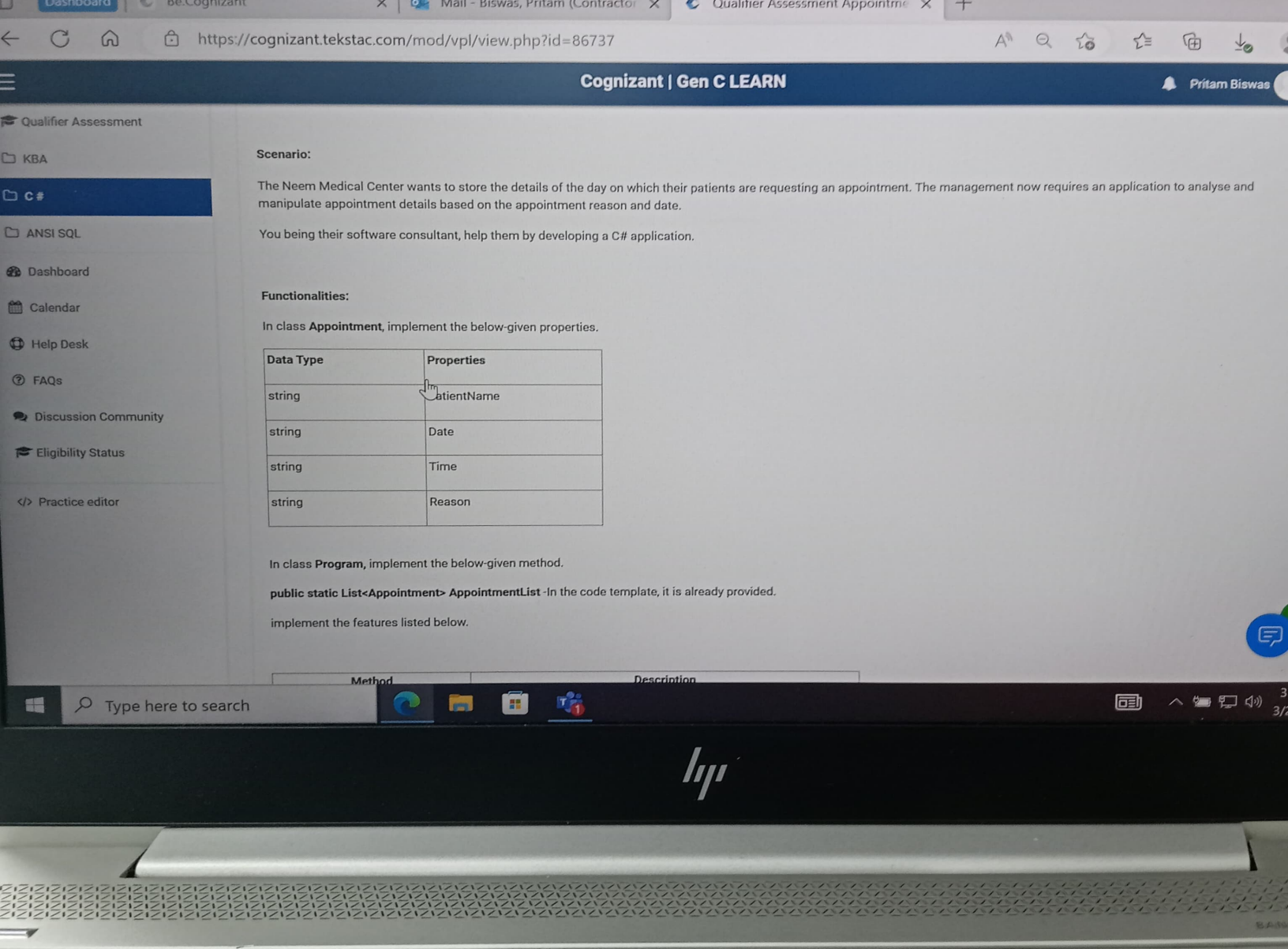
Enter the city



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Scenario:

The Neem Medical Center wants to store the details of the day on which their patients are requesting an appointment. The management now requires an application to analyse and manipulate appointment details based on the appointment reason and date.

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

Functionalities:

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

Data Type	Properties
string	patientName
string	Date
string	Time
string	Reason

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

**public static List<Appointment> AppointmentList** -In the code template, it is already provided.

implement the features listed below.

Method	Description
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`public static List<Appointment> AppointmentList` -In the code template, it is already provided.

implement the features listed below.

Method	Description
<code>public void AddAppointmentDetails (string[] details)</code>	<p>This method is used to add the appointment details into the <b>AppointmentList</b>.</p> <p>This method should separate the values in each string by a <b>comma</b> from the input array and assign those values to the <b>Appointment</b> object, then add each object to the <b>AppointmentList</b>.</p>
<code>public List&lt;Appointment&gt; ViewBookingDetailsByReason(string reason)</code>	<p>This method is used to find the appointment details based on the <b>reason</b> passed as an argument.</p> <p>If the <b>reason</b> is found in the <b>AppointmentList</b>, then add those appointment details to the List and return that <b>List</b>. else, return an <b>empty list</b>.</p>
<code>public List&lt;Appointment&gt; ViewBookingDetailsByDate(string date)</code>	<p>This method is used to find the appointment details based on the <b>date</b> passed as an argument.</p> <p>If the <b>date</b> is found in the <b>AppointmentList</b>, then add those appointment details to the List and return that <b>List</b>. else, return an <b>empty list</b>.</p>

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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 **ViewBookingDetailsByReason** method returns an empty list, then display "**Reason not found**".
  - If the **ViewBookingDetailsByDate** method returns an empty list, then display "**Date not found**".
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 Appointment Details



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### Sample Input and Output :

1. Add Appointment Details
2. View Details By Appointment Reason
3. View Details By Appointment Date
4. Exit

Enter the choice

1

Enter the number of entries

3

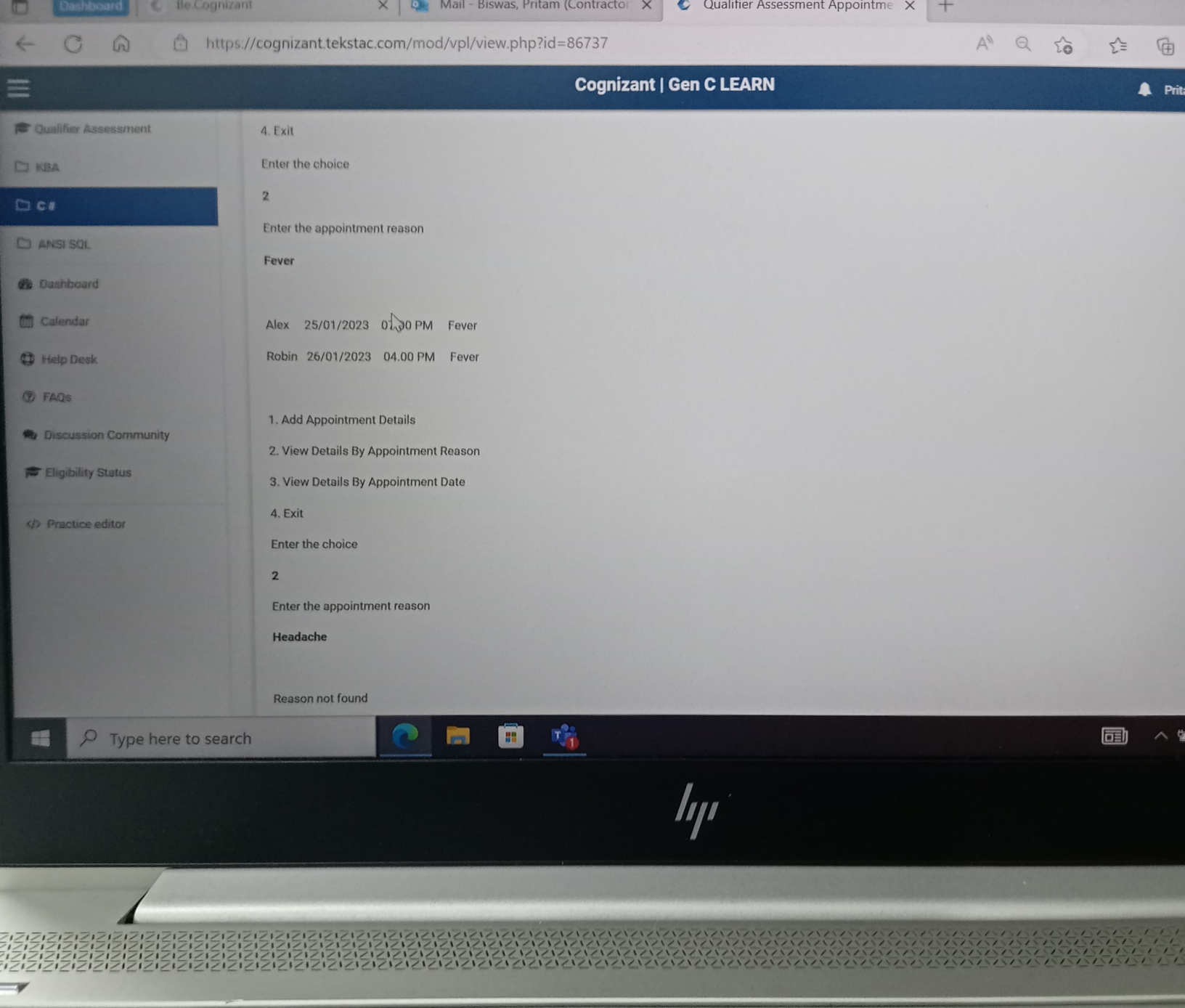
Alex,25/01/2023,07.00 PM,Fever

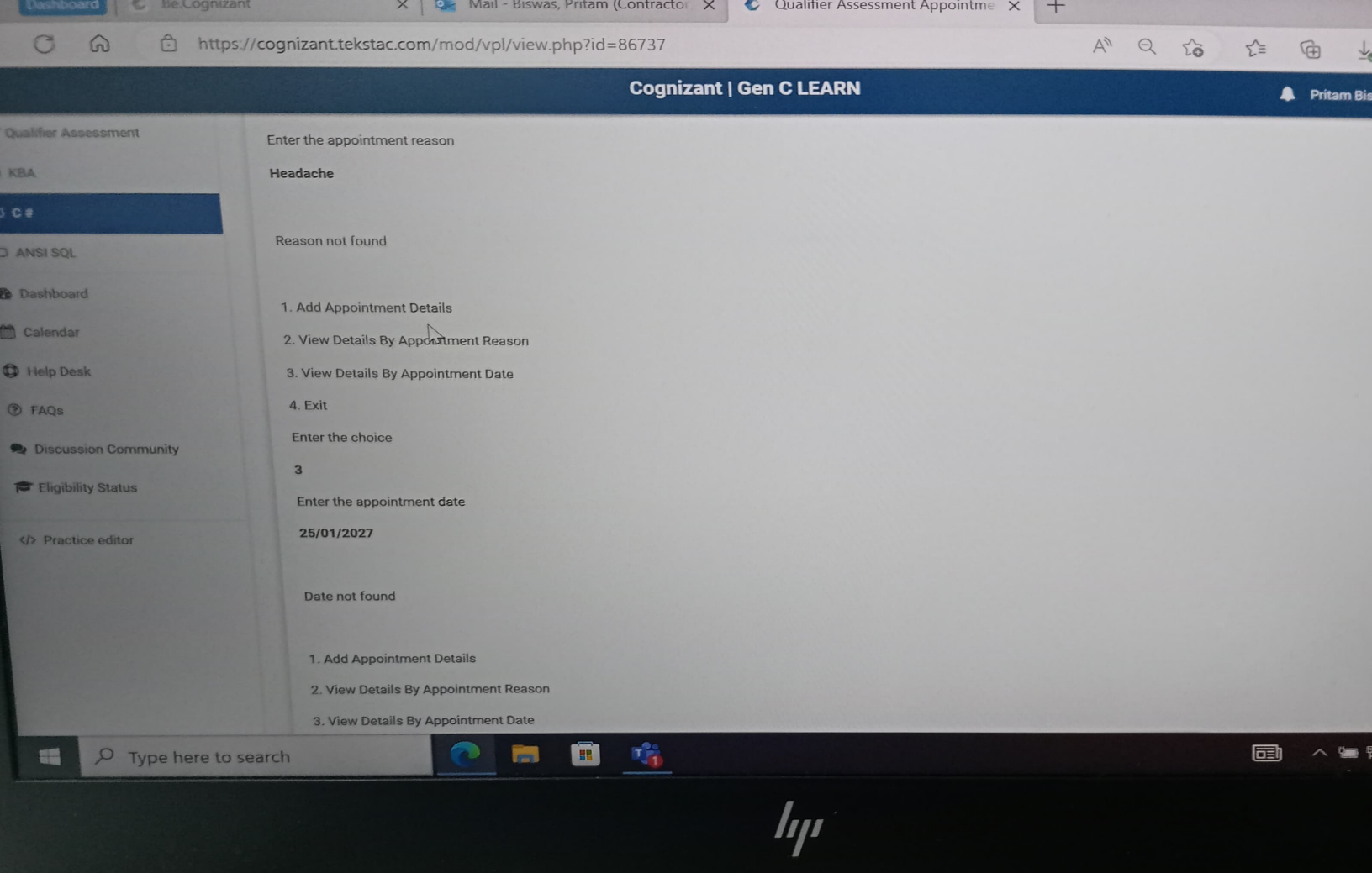
Robin,26/01/2023,04.00 PM,Fever

Mohammed,25/01/2023,08.00 PM,Stomach Pain

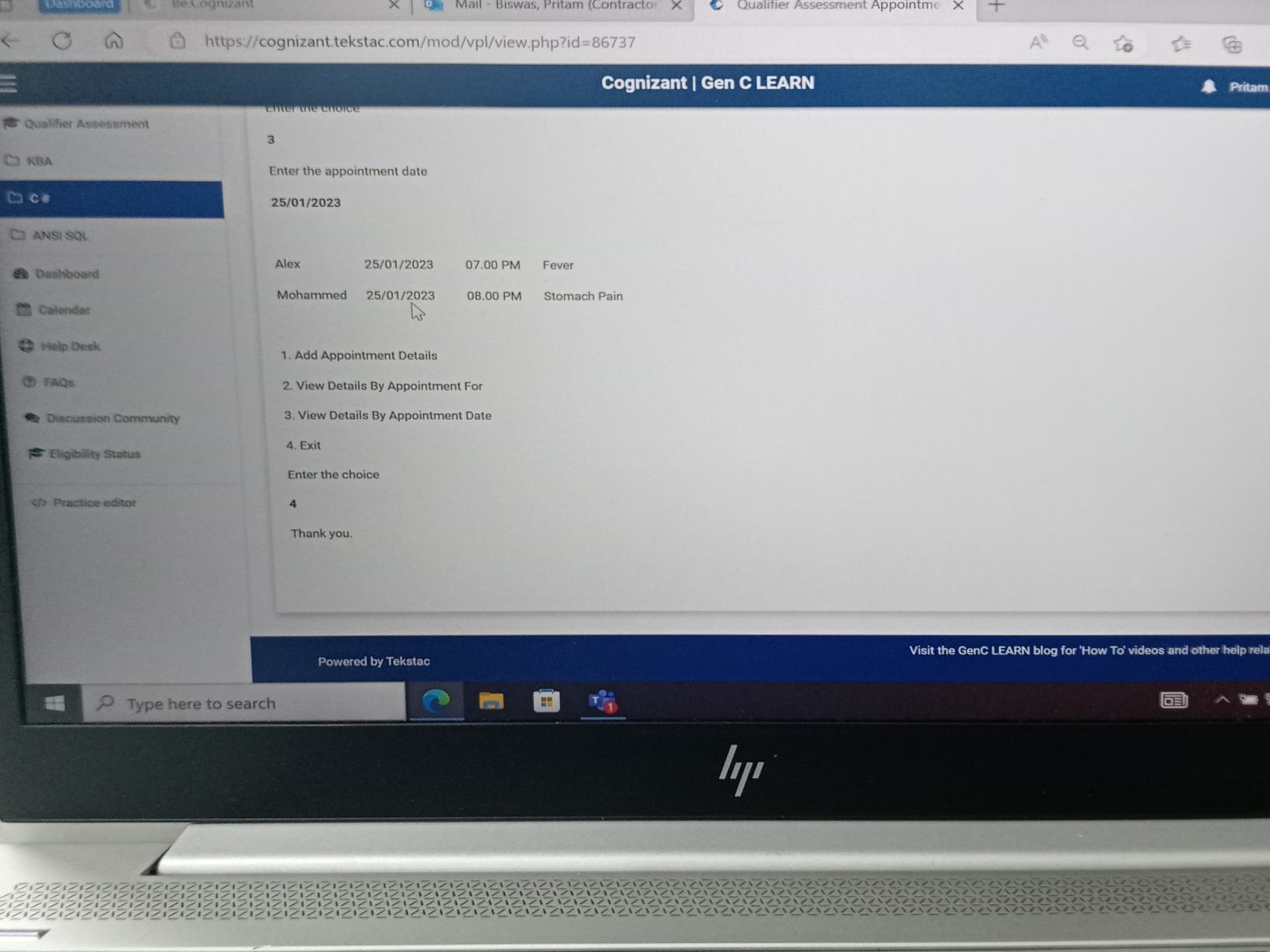
1. Add Appointment Details
2. View Details By Appointment Reason
3. View Details By Appointment Date
4. Exit

Enter the choice









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Enter the choice

3

Enter the appointment date

25/01/2023

Alex	25/01/2023	07.00 PM	Fever
Mohammed	25/01/2023	08.00 PM	Stomach Pain

1. Add Appointment Details
2. View Details By Appointment For
3. View Details By Appointment Date
4. Exit

Enter the choice

4

Thank you.

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