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Study Level : UG/PG	PG	Year & Term: 2 nd year & 3 rd term	
Subject Name	RESEARCH AND PUBLICATION ETHICS		

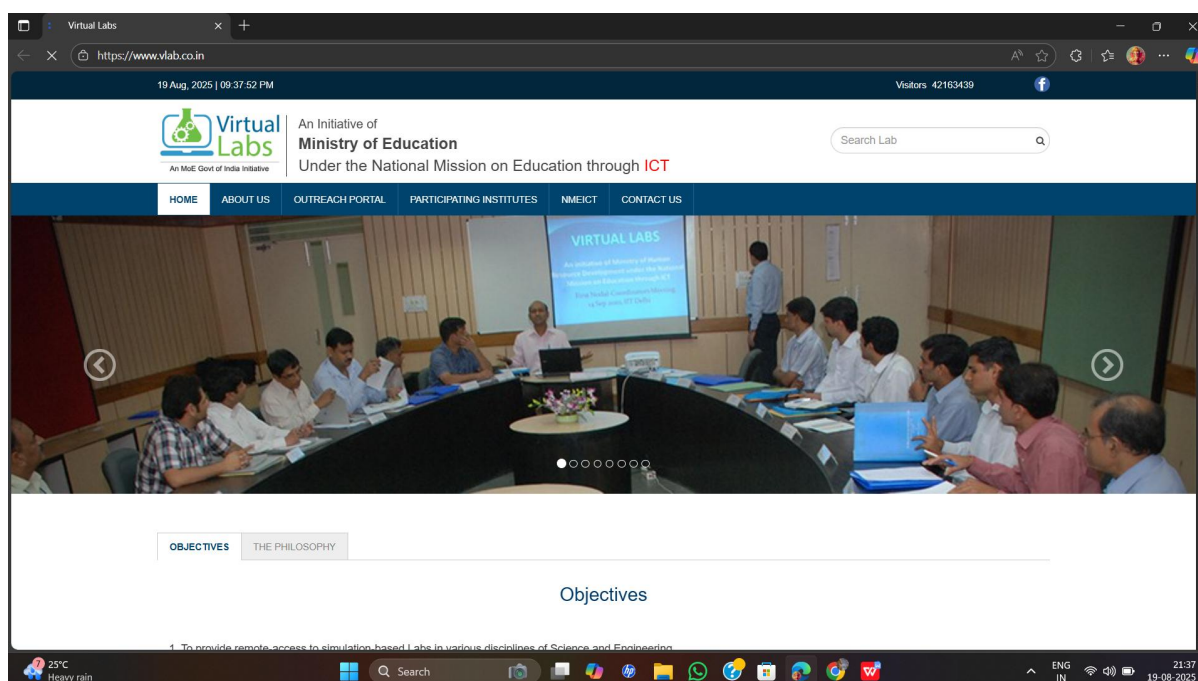
Name of the Assessment	ASSESSMENT-2
Date of Submission	19-08-2025

ASSIGNMENT-2

Process of Using Virtual Labs for Experiments

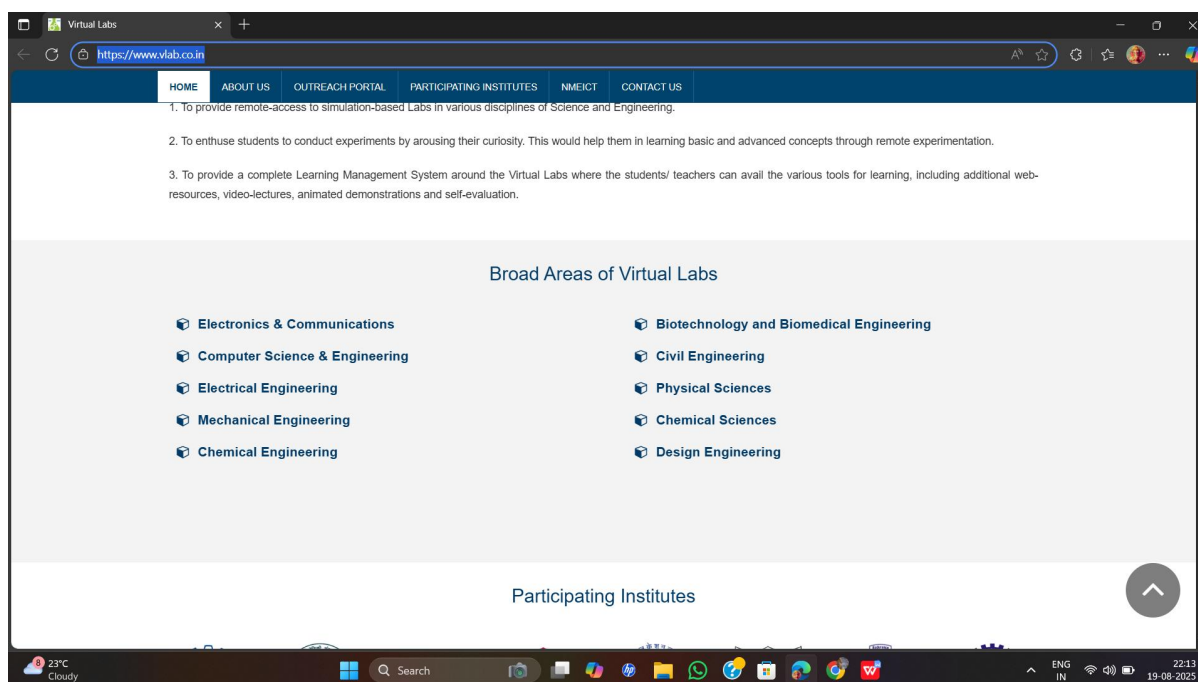
Open the Website

- I started the process by visiting the official Virtual Labs website at.
- LINK:<https://www.vlab.co.in>.



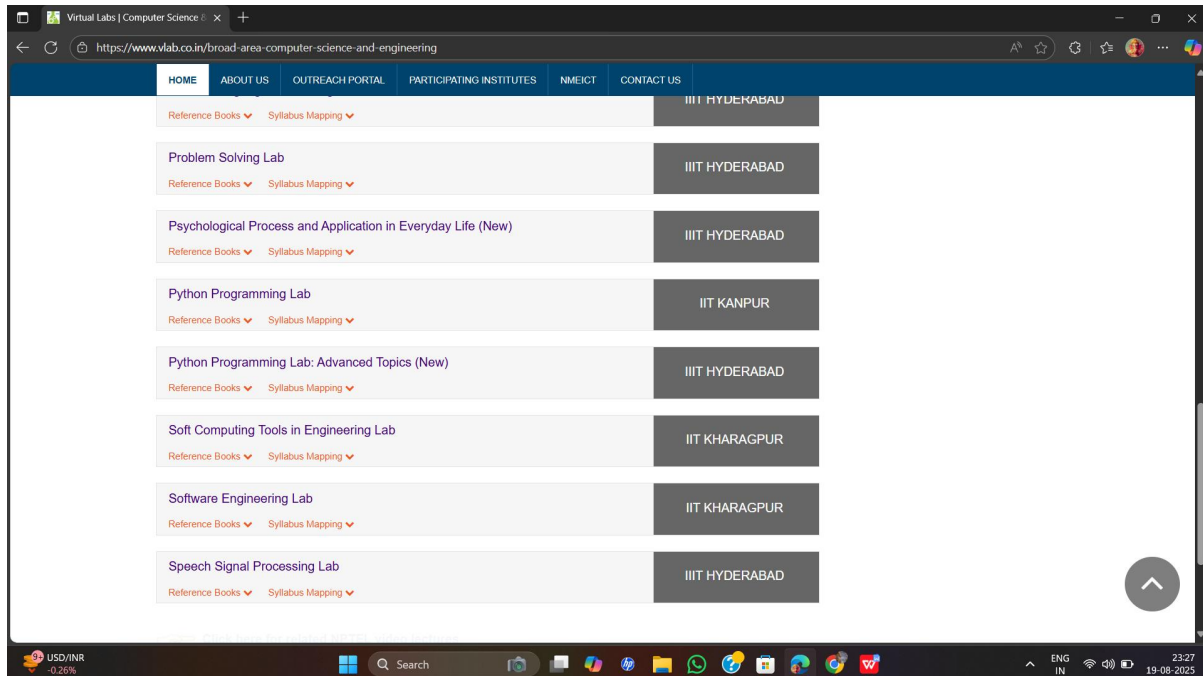
Choose Subject

- Pick a field of study such as Computer Science, Mathematics, Electronics, Physics, etc.
- From the options provided, I chose **Computer Science** as my discipline.



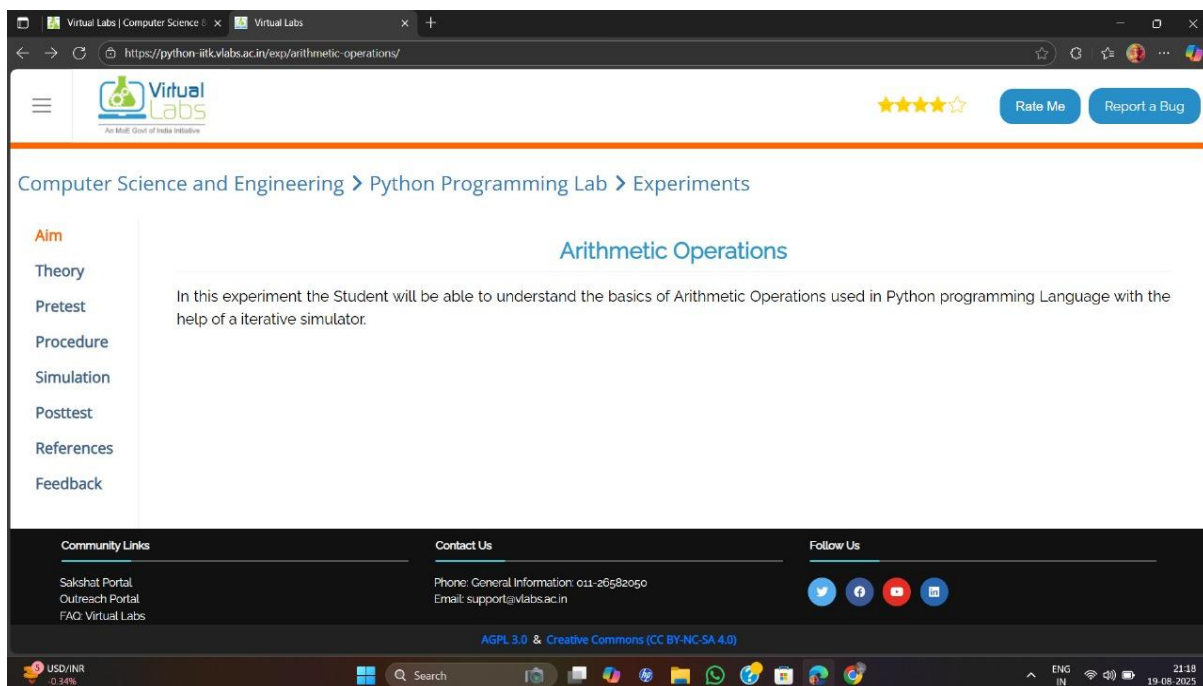
Choose a Lab

- Pick a particular laboratory such as Programming Lab, Data Structures Lab, and so on.
- From this discipline, I opted for the **Python Programming Lab**.



Study the Theory & Steps

- Every experiment page contains a **Theory** part that explains the concept.
- It also includes a **Procedure** part that describes the step-by-step process.



➤ **EXAMPLE:1**

The screenshot displays the Virtual Labs interface for the 'String' simulation. The browser address bar shows the URL: <https://python-ittk.vlabs.ac.in/exp/strings/simulation.html>. The page title is 'String', and it features a 5-star rating and buttons for 'Rate Me' and 'Report a Bug'.

The main content area is titled 'Analysis of Strings' and includes a navigation bar with buttons: 'Concatenate', 'Slicing', 'Reverse', and 'Repetition'.

The interface is divided into three main panels:

- Demonstration:** Contains the instruction 'Demonstrate the position of a character by defining proper index.' Below this, there is a text input field containing 'HELLO' and a numeric input field containing '1'. There are 'Start', 'Next', and 'Reset' buttons.
- Step Execute:** Displays the following Python code:

```
s = input("Enter the String :")
start = input("Starting Index :")
print("The Indexed String is :",s[start])
```
- Result:** A large empty box for displaying the output of the simulation.

The bottom of the image shows a Windows taskbar with the system clock at 21:24 on 19-08-2025.

String ★★★★★ [Rate Me](#) [Report a Bug](#)

Analysis of Strings

[Concatenate](#) [Slicing](#) [Reverse](#) [Repetition](#)

Demonstration

Demonstrate the position of a character by defining proper index.

HELLO

1

[Start](#)

[Next](#) [Reset](#)

Step Execute

```
s = input("Enter the String :")
start = input("Starting Index :")
print("The Indexed String is :",s[start])
```

Result

The Indexed String is :
E

python-itiitk.vlabs.ac.in says
Program Completed [OK](#)

Analysis of Strings

[Concatenate](#) [Slicing](#) [Reverse](#) [Repetition](#)

Demonstration

Demonstrate the position of a character by defining proper index.

HELLO

1

[Start](#)

[Next](#) [Reset](#)

Step Execute

```
s = input("Enter the String :")
start = input("Starting Index :")
print("The Indexed String is :",s[start])
```

Result

The Indexed String is :
E

Top Stories
Asia Cup: 'Sanju...

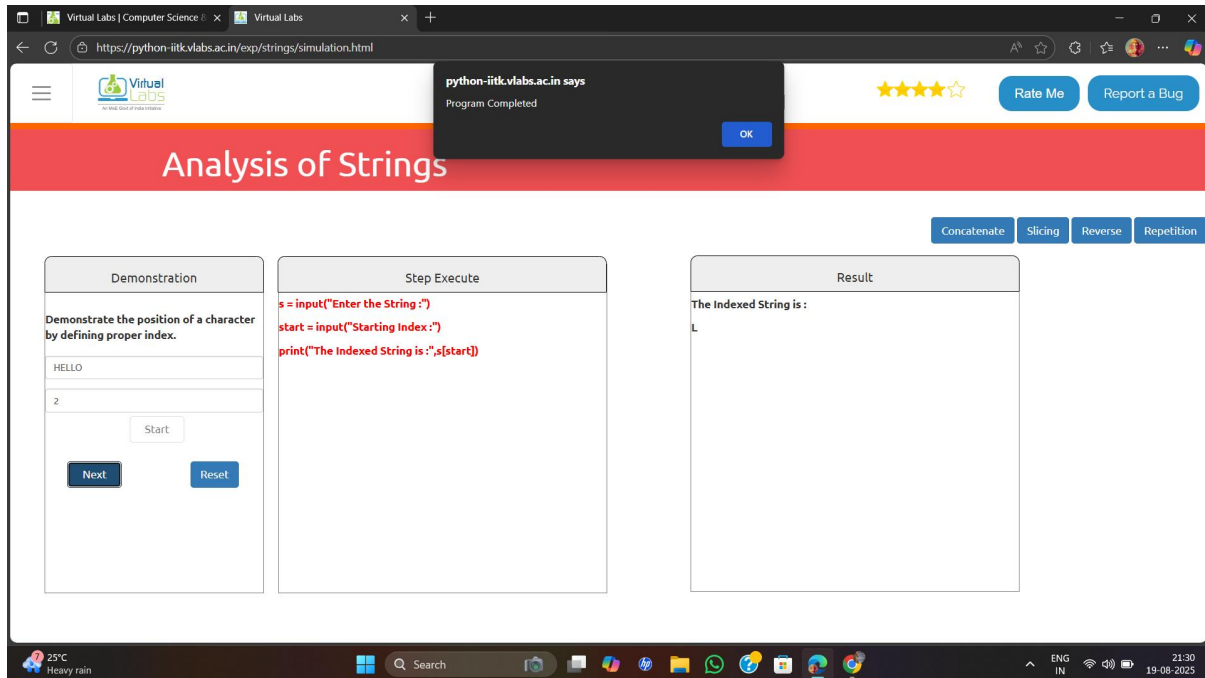
➤ **EXAMPLE:2**

The screenshot displays a web application titled "String" with a red header bar. The application is designed for string analysis and includes several interactive components:

- Navigation and User Feedback:** A top navigation bar contains the "String" title, a five-star rating system, and buttons for "Rate Me" and "Report a Bug".
- Functionality Tabs:** A row of tabs allows users to select different operations: "Concatenate", "Slicing", "Reverse", and "Repetition".
- Demonstration Section:** This section provides a guided example. It features a text input field containing "HELLO" and a numeric input field containing "2". Below these fields are "Start", "Next", and "Reset" buttons. The instruction reads: "Demonstrate the position of a character by defining proper index."
- Step Execute Section:** This section shows the underlying Python code for the demonstration:

```
s = input("Enter the String :")
start = input("Starting Index :")
print("The Indexed String is :",s[start])
```
- Result Section:** This section displays the output of the code execution. It shows the text "The Indexed String is :" followed by the character "L", which is the character at index 2 of the string "HELLO".

The application is running in a web browser, with the address bar showing the URL: <https://python-iitk.vlabs.ac.in/exp/strings/simulation.html>. The browser's taskbar at the bottom indicates a system temperature of 25°C and heavy rain.



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https://python-iitk.vlabs.ac.in/exp/strings/simulation.html

python-iitk.vlabs.ac.in says
Program Completed

★★★★★ Rate Me Report a Bug

Analysis of Strings

Concatenate Slicing Reverse Repetition

Demonstration

Demonstrate the position of a character by defining proper index.

HELLO

2

Start

Next Reset

Step Execute

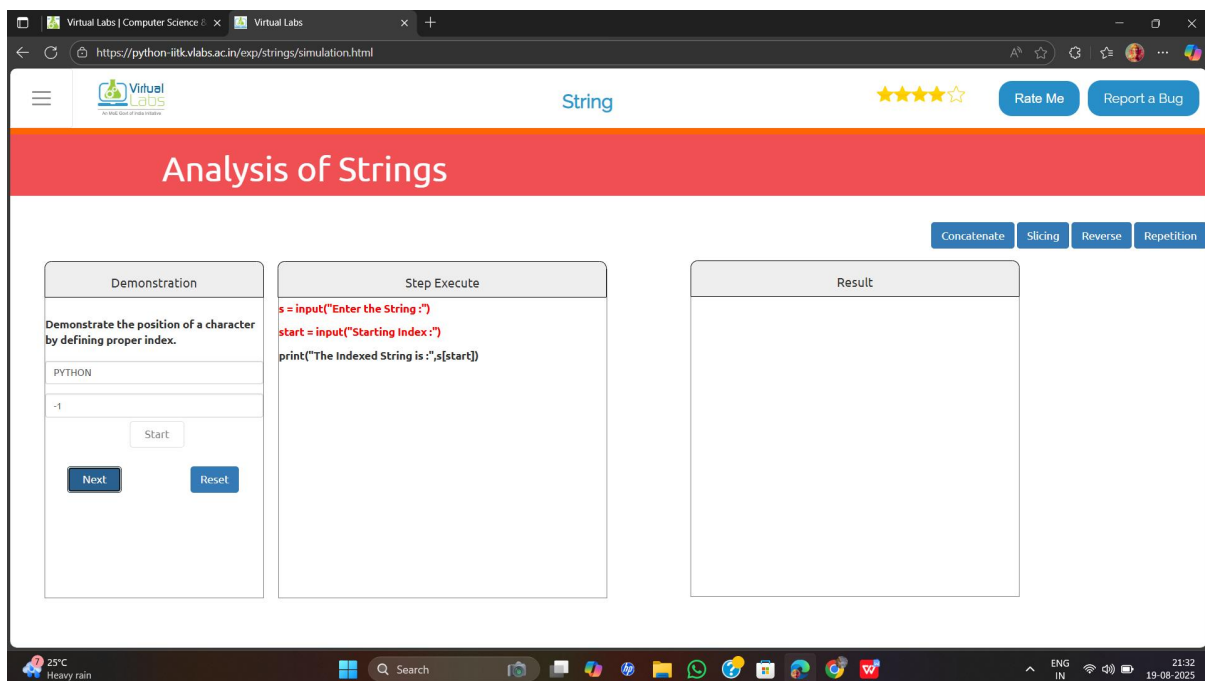
```
s = input("Enter the String :")
start = input("Starting Index :")
print("The Indexed String is :",s[start])
```

Result

The Indexed String is :
L

25°C Heavy rain Search 21:30 19-08-2025

➤ EXAMPLE:3



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https://python-iitk.vlabs.ac.in/exp/strings/simulation.html

String

★★★★★ Rate Me Report a Bug

Analysis of Strings

Concatenate Slicing Reverse Repetition

Demonstration

Demonstrate the position of a character by defining proper index.

PYTHON

-1

Start

Next Reset

Step Execute

```
s = input("Enter the String :")
start = input("Starting Index :")
print("The Indexed String is :",s[start])
```

Result

25°C Heavy rain Search 21:32 19-08-2025

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https://python-itk.vlabs.ac.in/exp/strings/simulation.html

String

★★★★★ Rate Me Report a Bug

Analysis of Strings

Concatenate Slicing Reverse Repetition

Demonstration

Demonstrate the position of a character by defining proper index.

PYTHON

-1

Start

Next Reset

Step Execute

```
s = input("Enter the String :")
start = input("Starting Index :")
print("The Indexed String is :",s[start])
```

Result

The Indexed String is :

o

25°C Heavy rain 21:33 19-08-2025

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https://python-itk.vlabs.ac.in/exp/strings/simulation.html

String

★★★★★ Rate Me Report a Bug

Analysis of Strings

Concatenate Slicing Reverse Repetition

Demonstration

Demonstrate the position of a character by defining proper index.

PYTHON

-1

Start

Next Reset

Step Execute

```
s = input("Enter the String :")
start = input("Starting Index :")
print("The Indexed String is :",s[start])
```

Result

The Indexed String is :

o

python-itk.vlabs.ac.in says Program Completed OK

25°C Heavy rain 21:33 19-08-2025