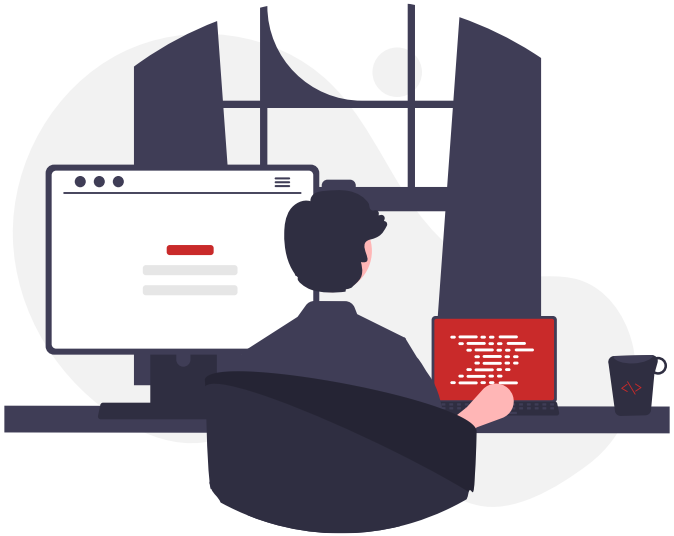
CodeTantra

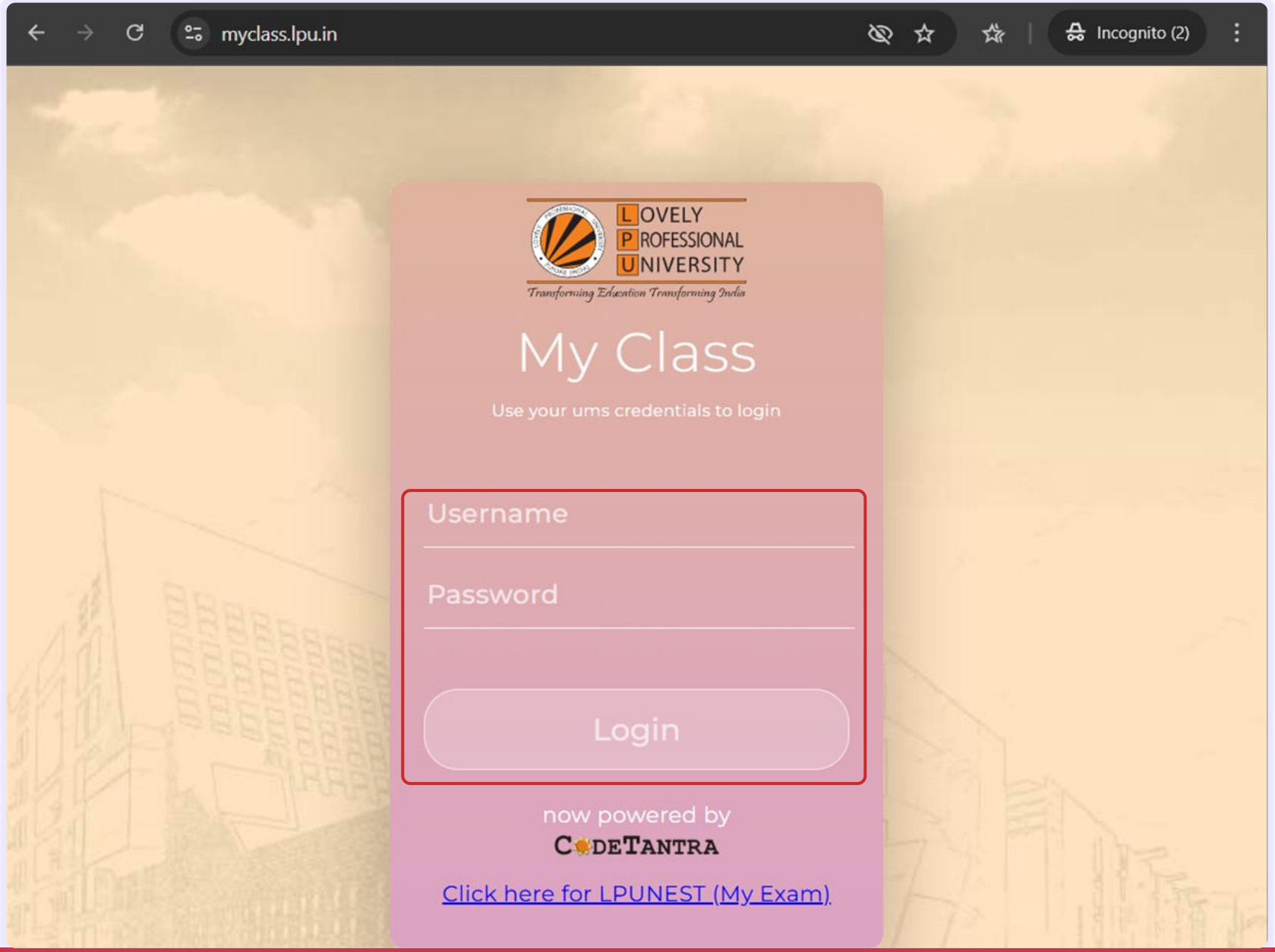
Coding Platform

A comprehensive guide for students

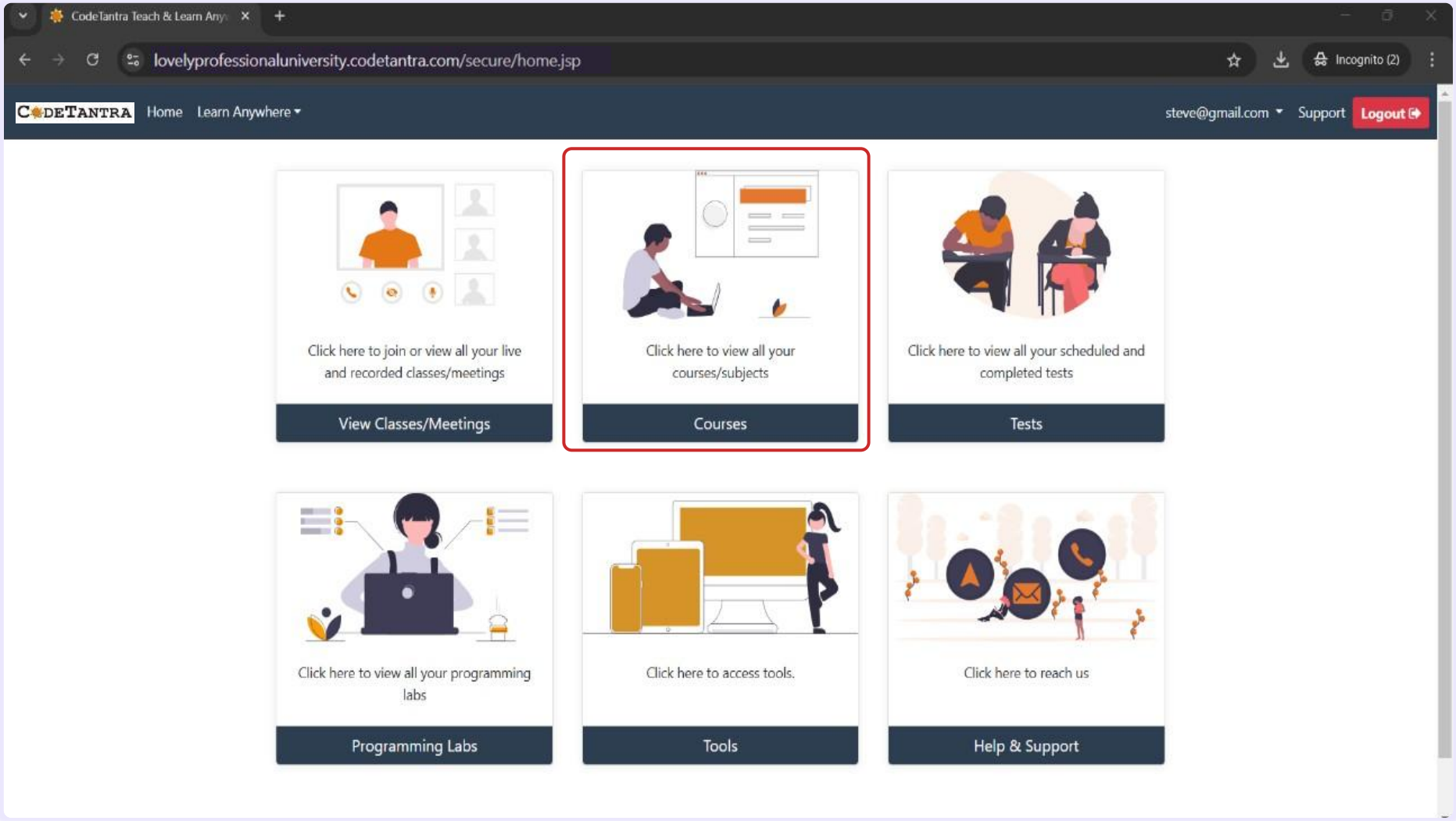


Supported Operating Systems & Browsers

Operating System	Windows	Mac	Linux
Supported Browser	CodeTantra Secure Exam Application (SEA)	CodeTantra Secure Exam Application (SEA)	CodeTantra Secure Exam Application (SEA)

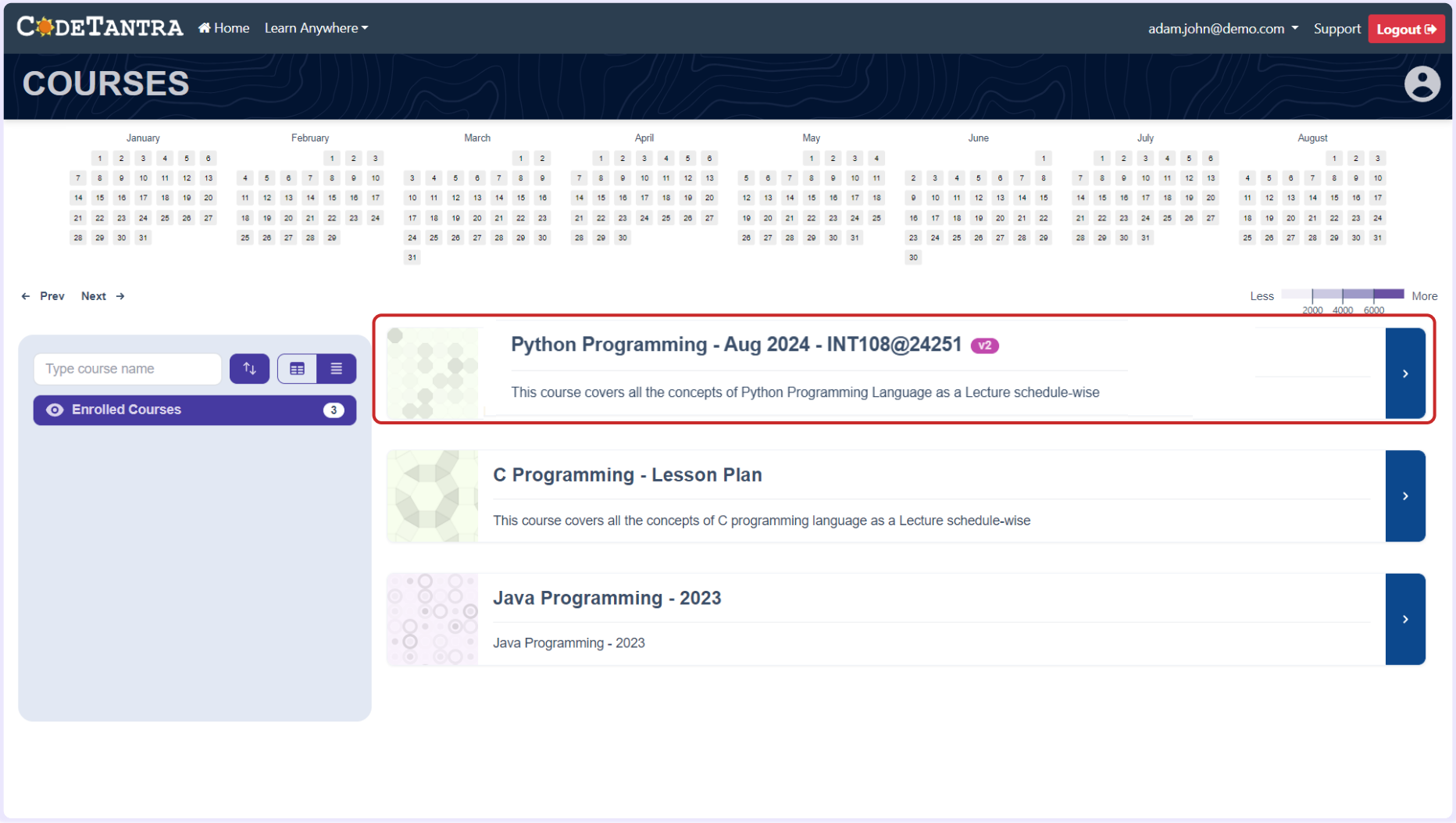


1. Login to myclass.lpu.in
2. Enter your UMS credentials to log in to the portal

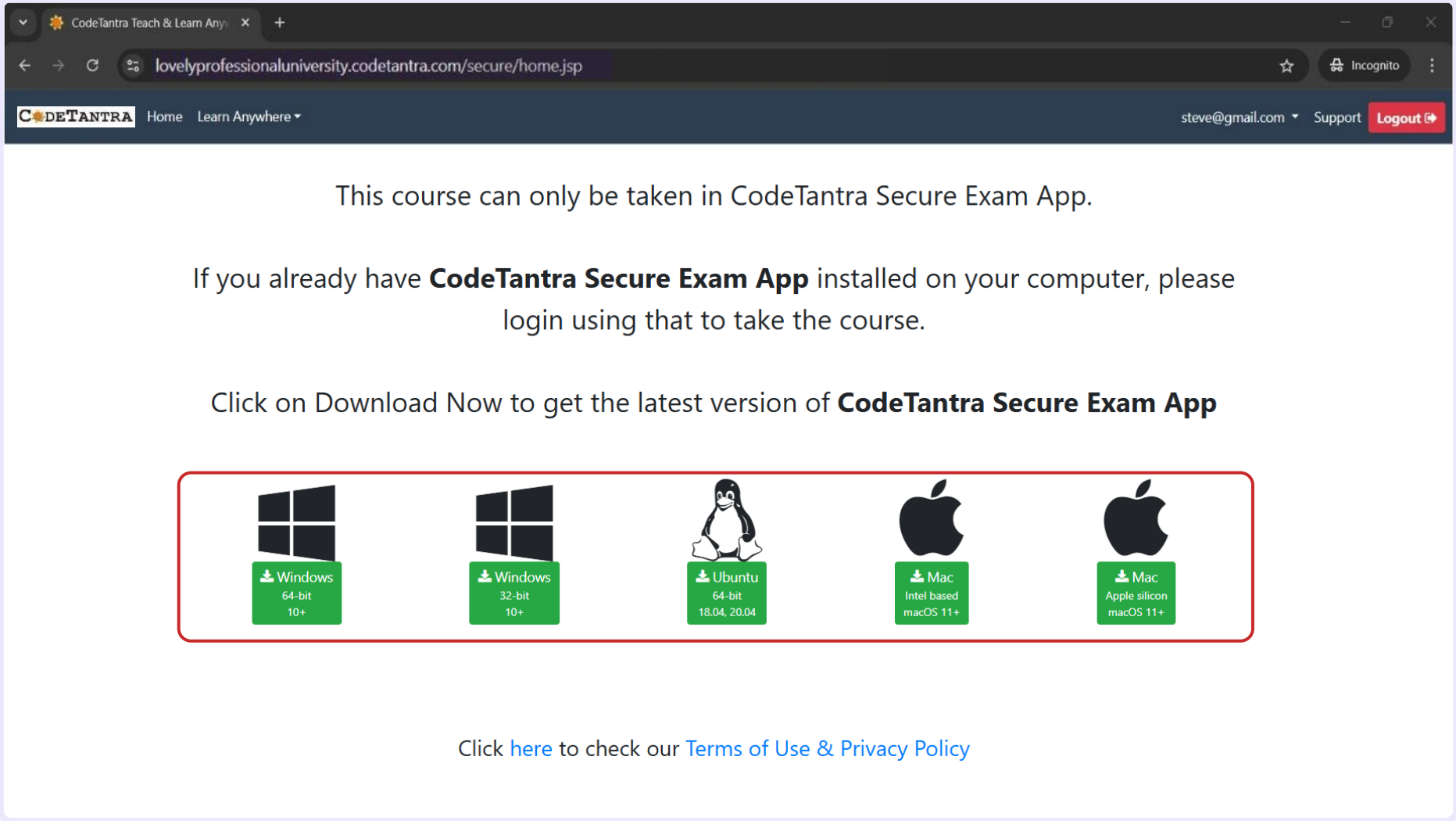


Go to Courses

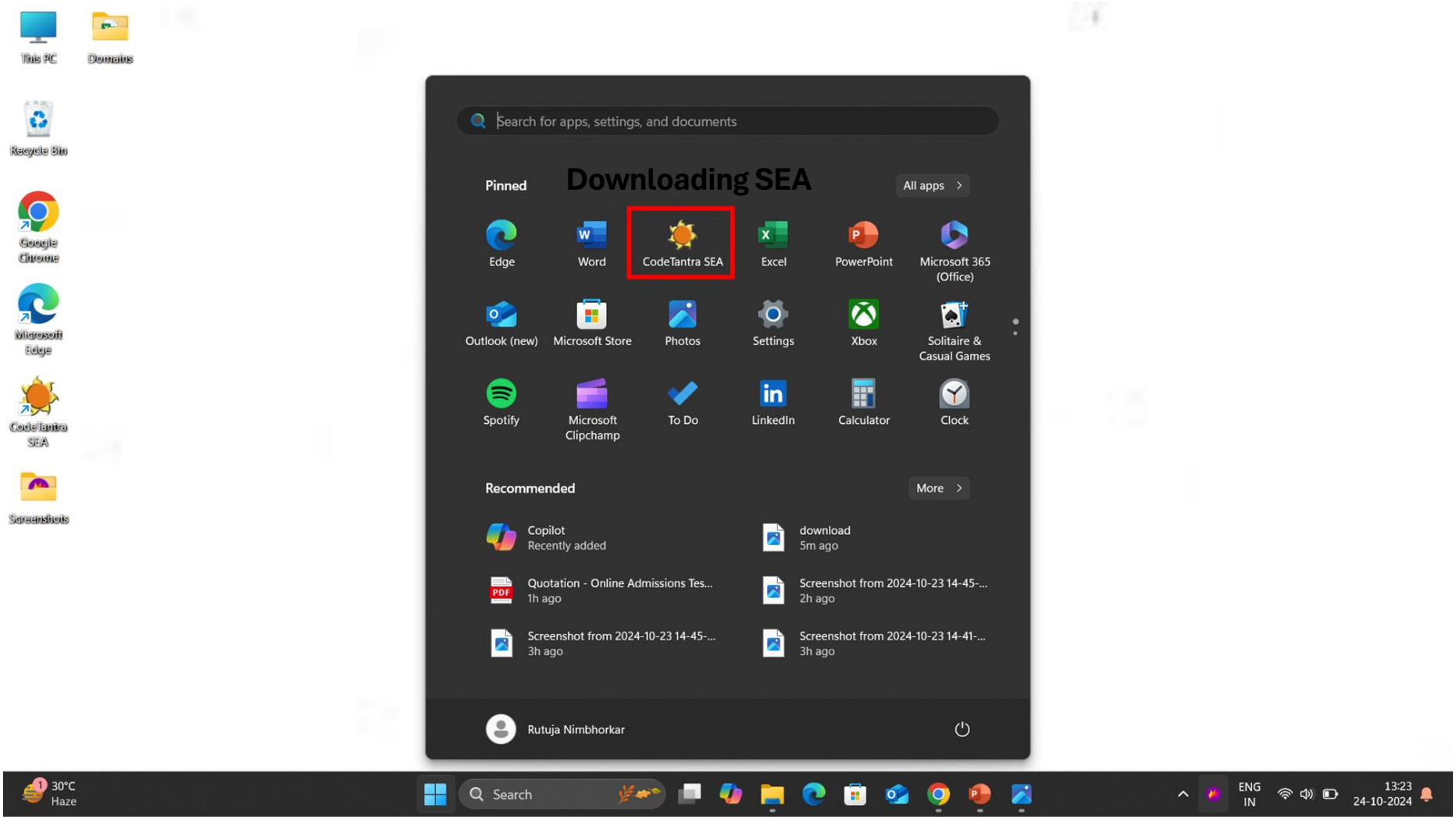
A. Click on Courses card available on the home page.



Select the course from the list of enrolled courses.



Download the application according to your system configuration.

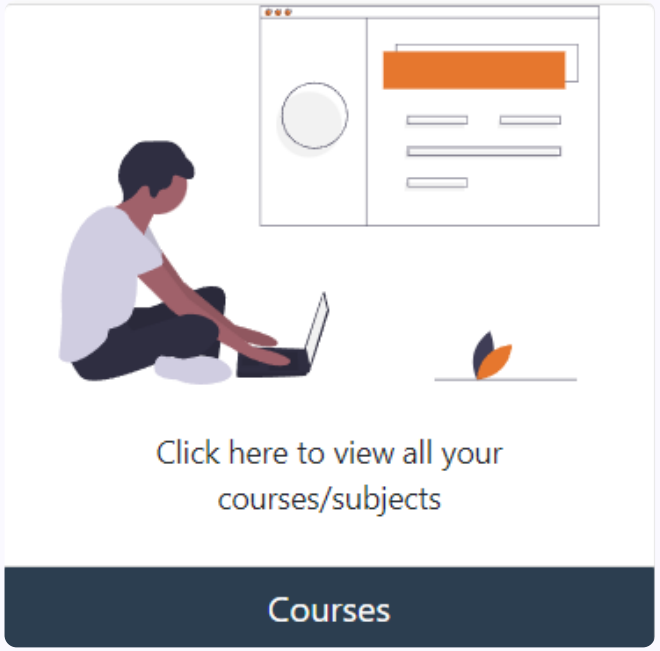


Run The SEA app in Primary Device

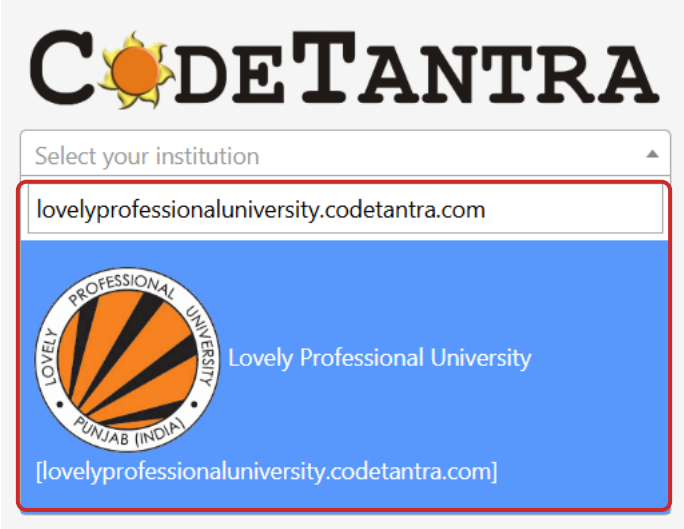
- Go to Start Menu.
- Find and click on CodeTantra SEA app.

Accessing Courses

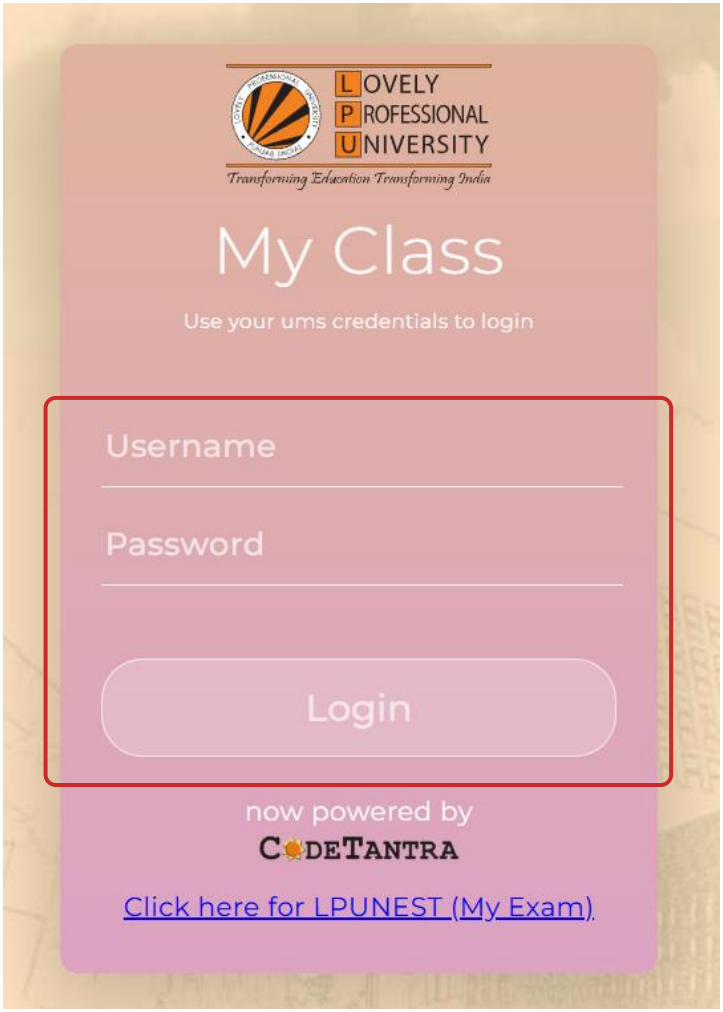
Codetantra’s LMS V2



1

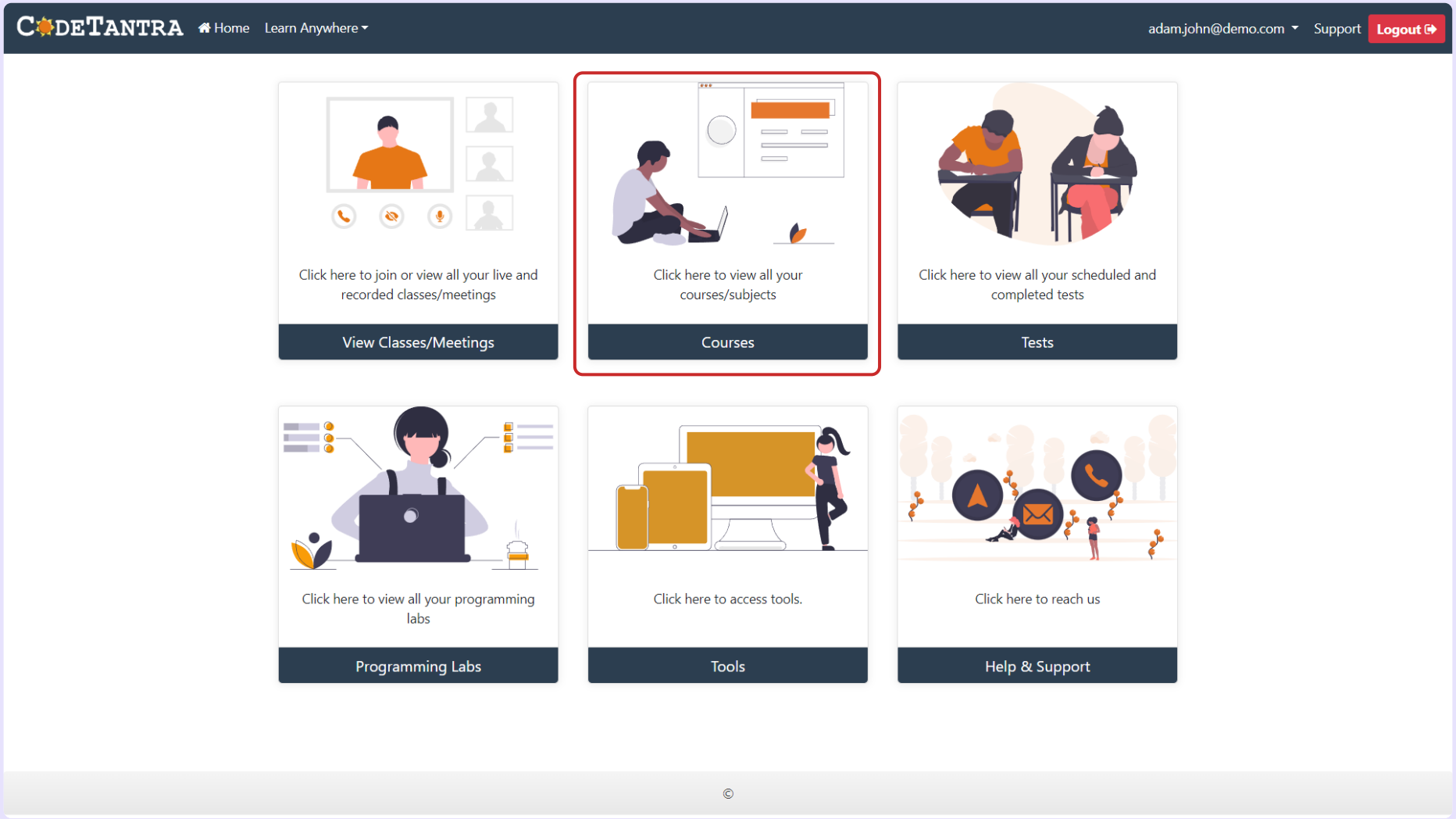


2



Open the CodeTantra SEA on your Desktop or Laptop running Windows/Mac/ Linux OS.

1. Type lovelyprofessionaluniversity.codetantra.com in the Select your institution dropdown search box.
2. Enter your UMS credentials to log in to the portal



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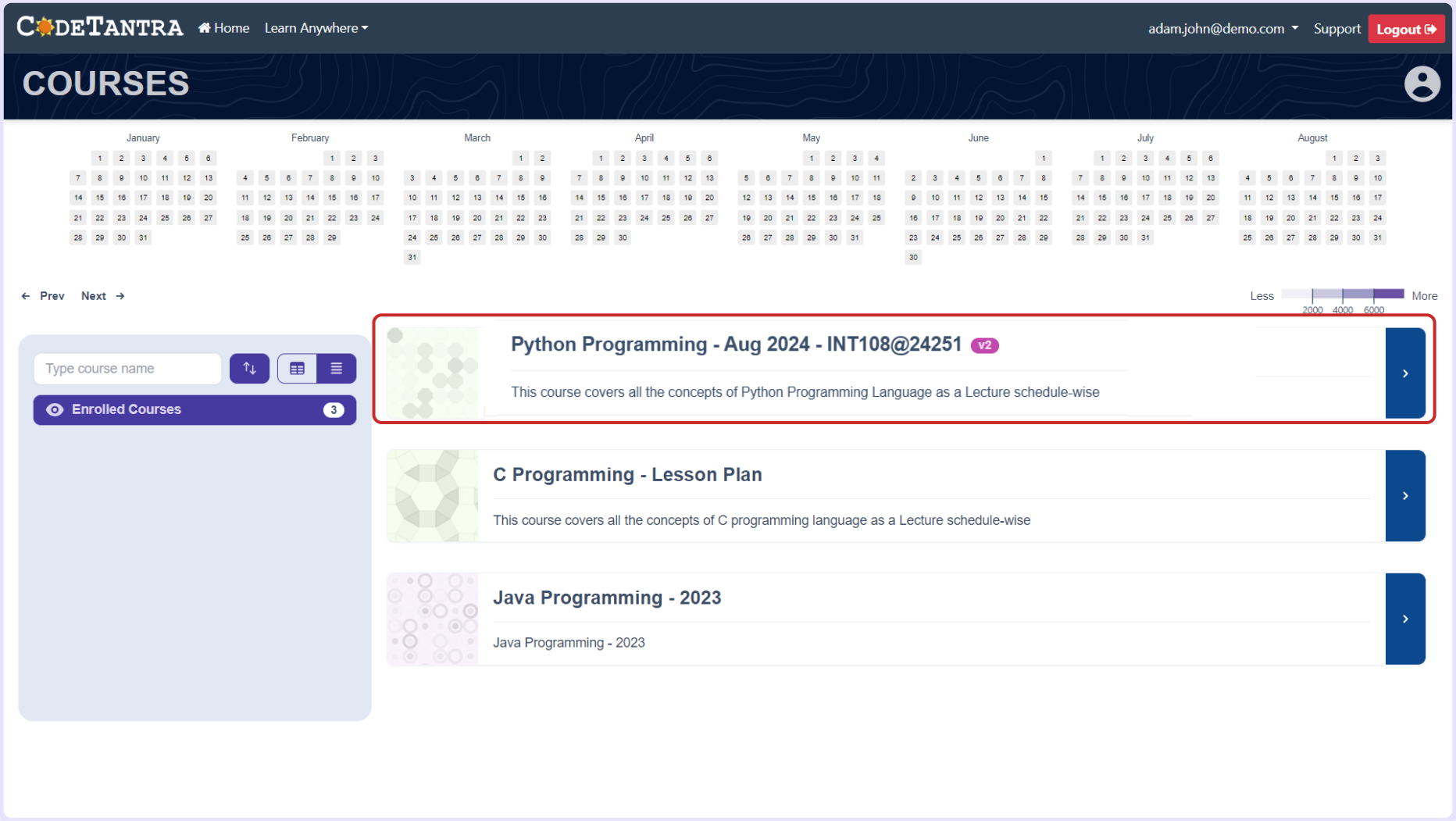

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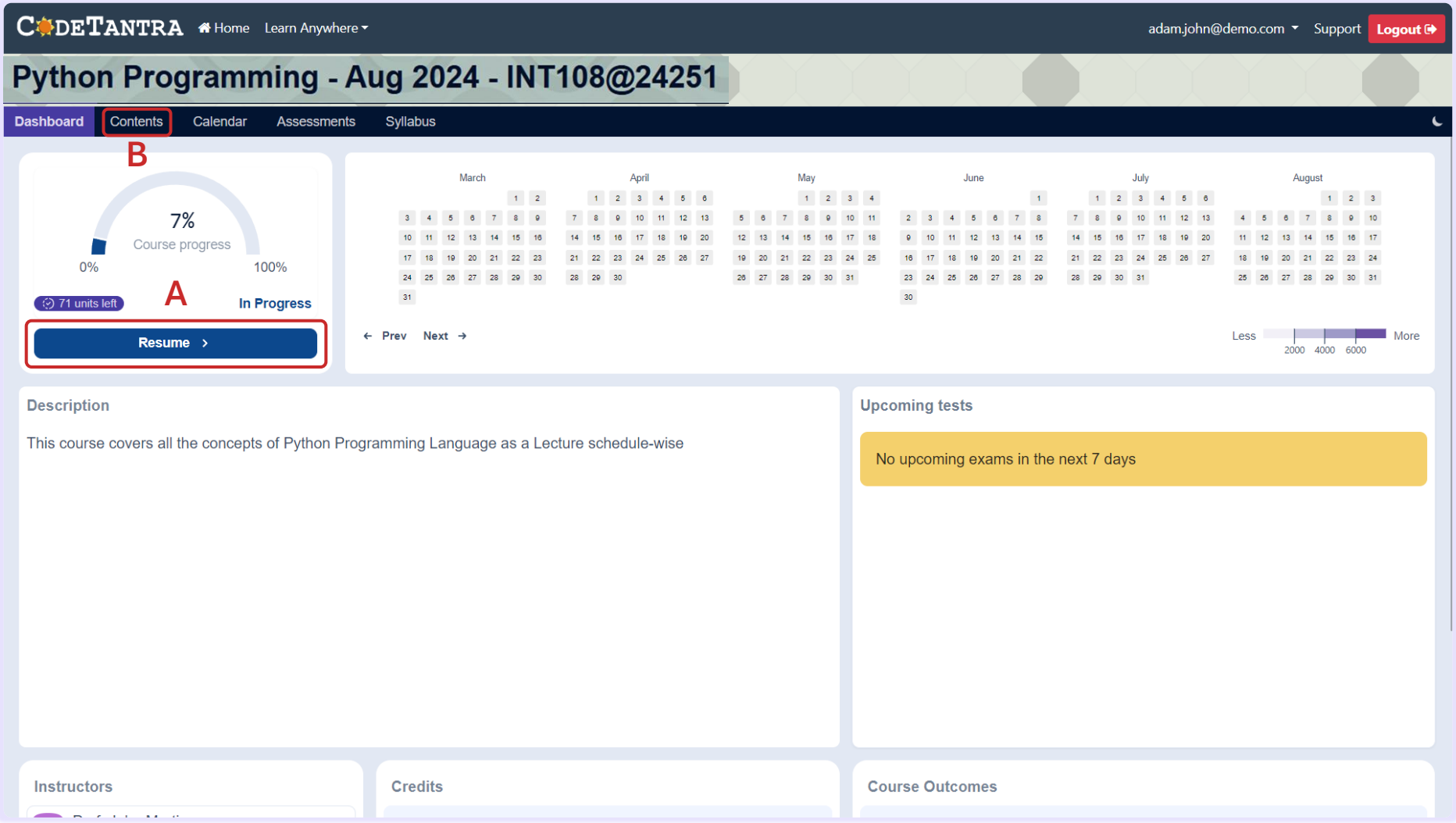
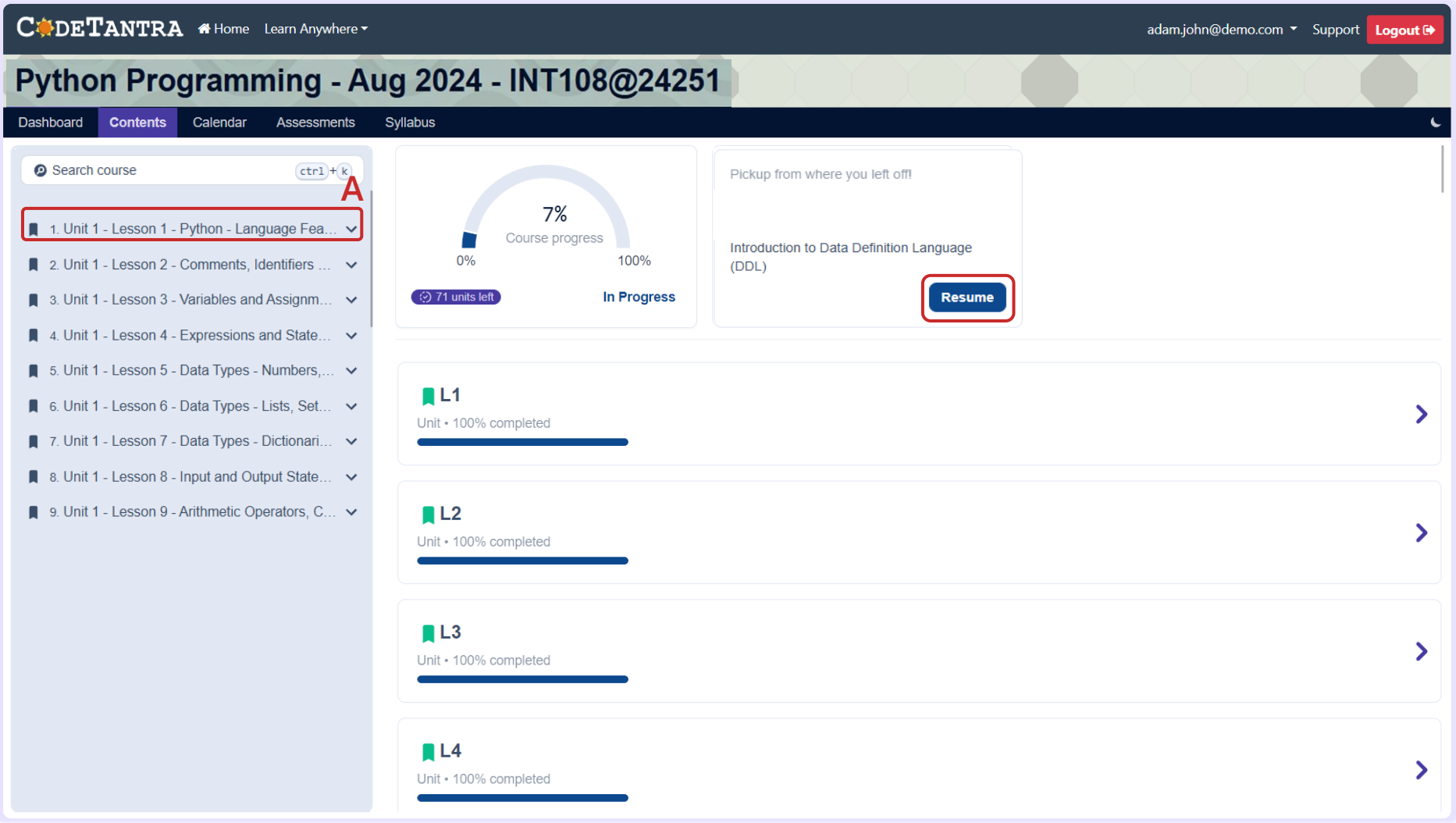


Start/Resume the Course

A. Click on the Resume button to continue studying after the last solved question.

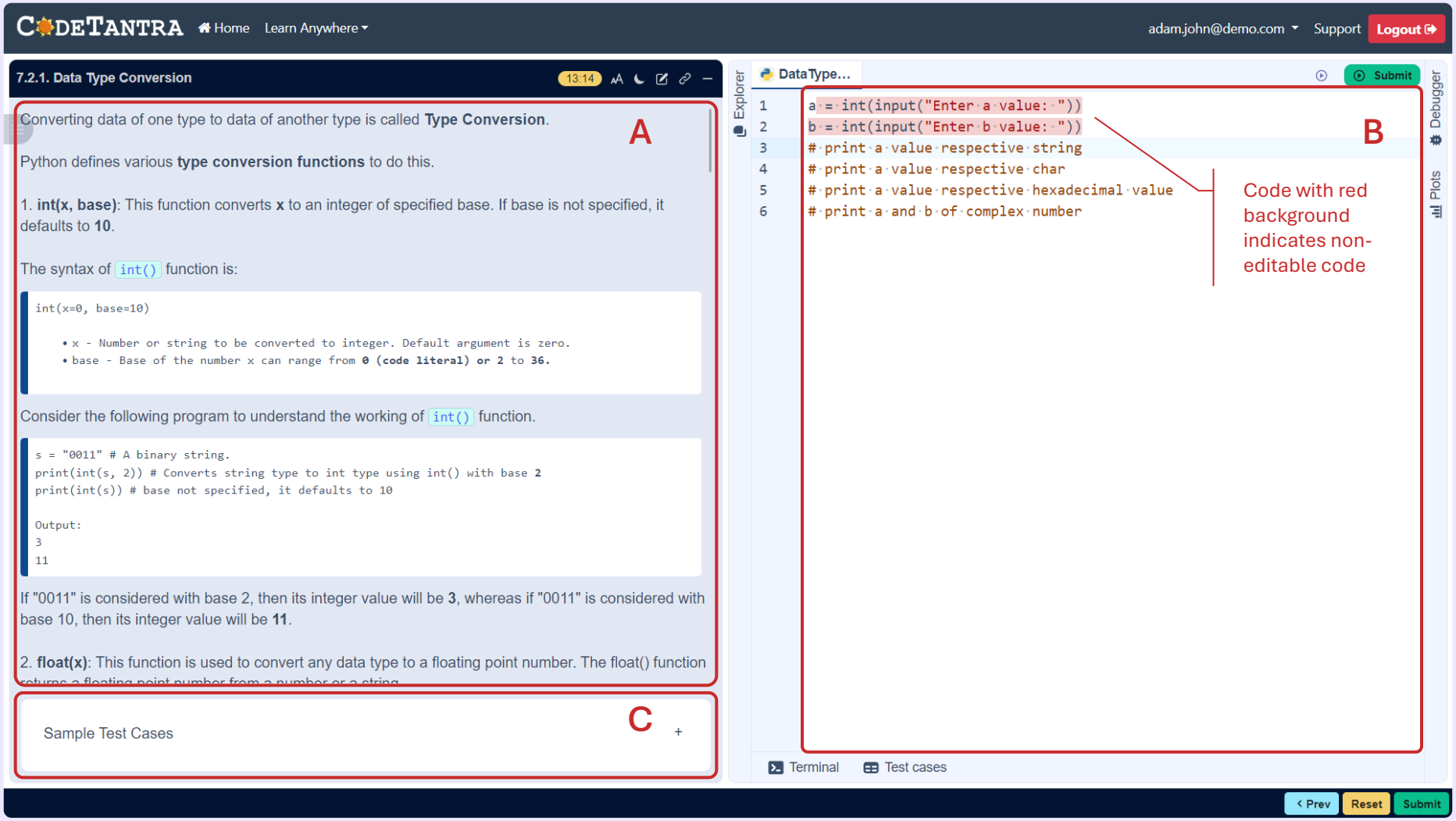
B. If you are just starting this course, click on the Contents button.



Start/Resume the Course

A. Click on the Question to go to the respective content.

B. Alternatively, You can click on the Resume button also to resume from where you left off.

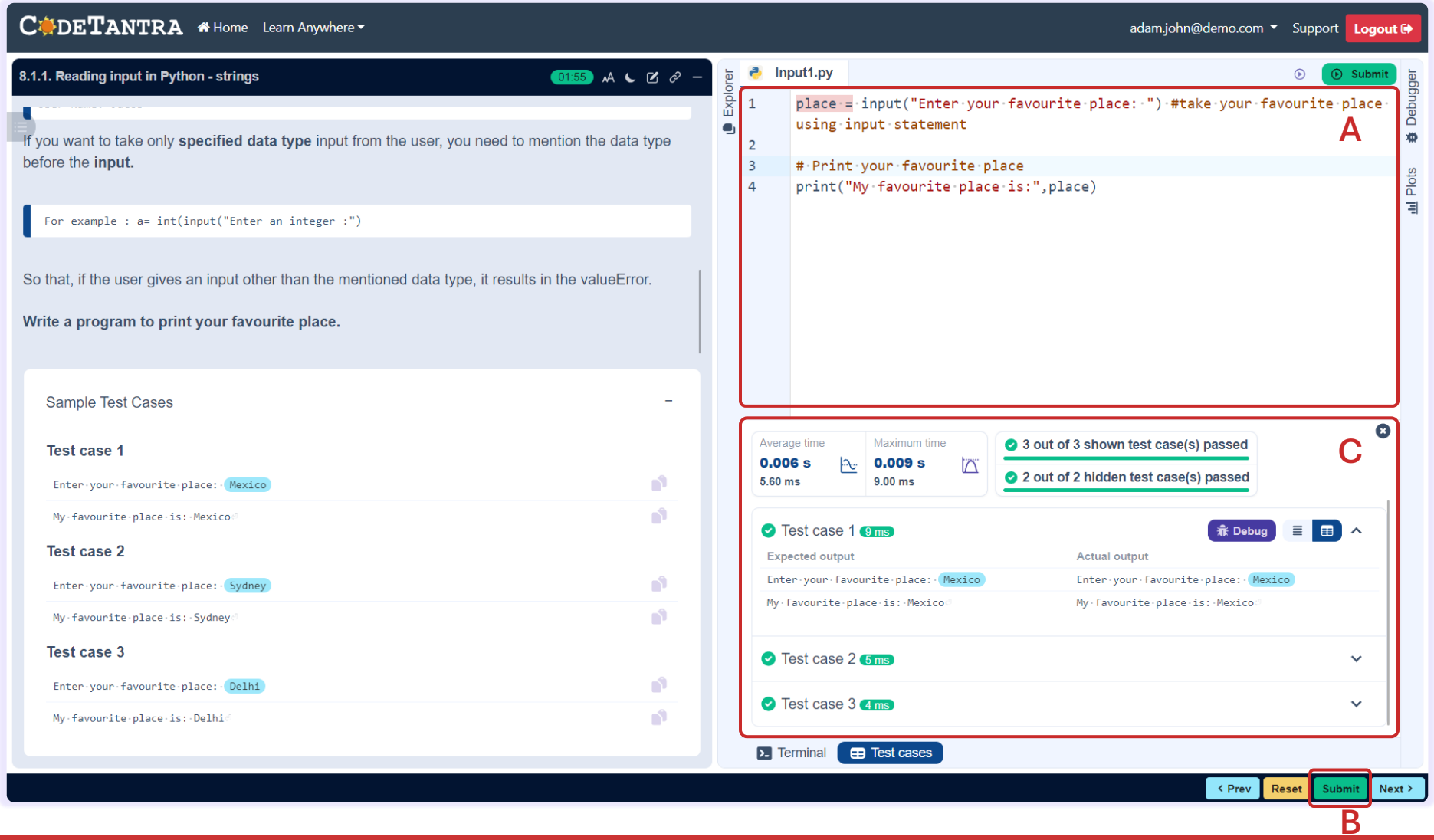


Interface Introduction

A. Learning Content Panel: Learn the given content

B. Question Panel: Solve the given problem (It can be coding or MCQ type)

C. Sample Test Cases: Expand the Sample Test Cases panel to know the desired output.

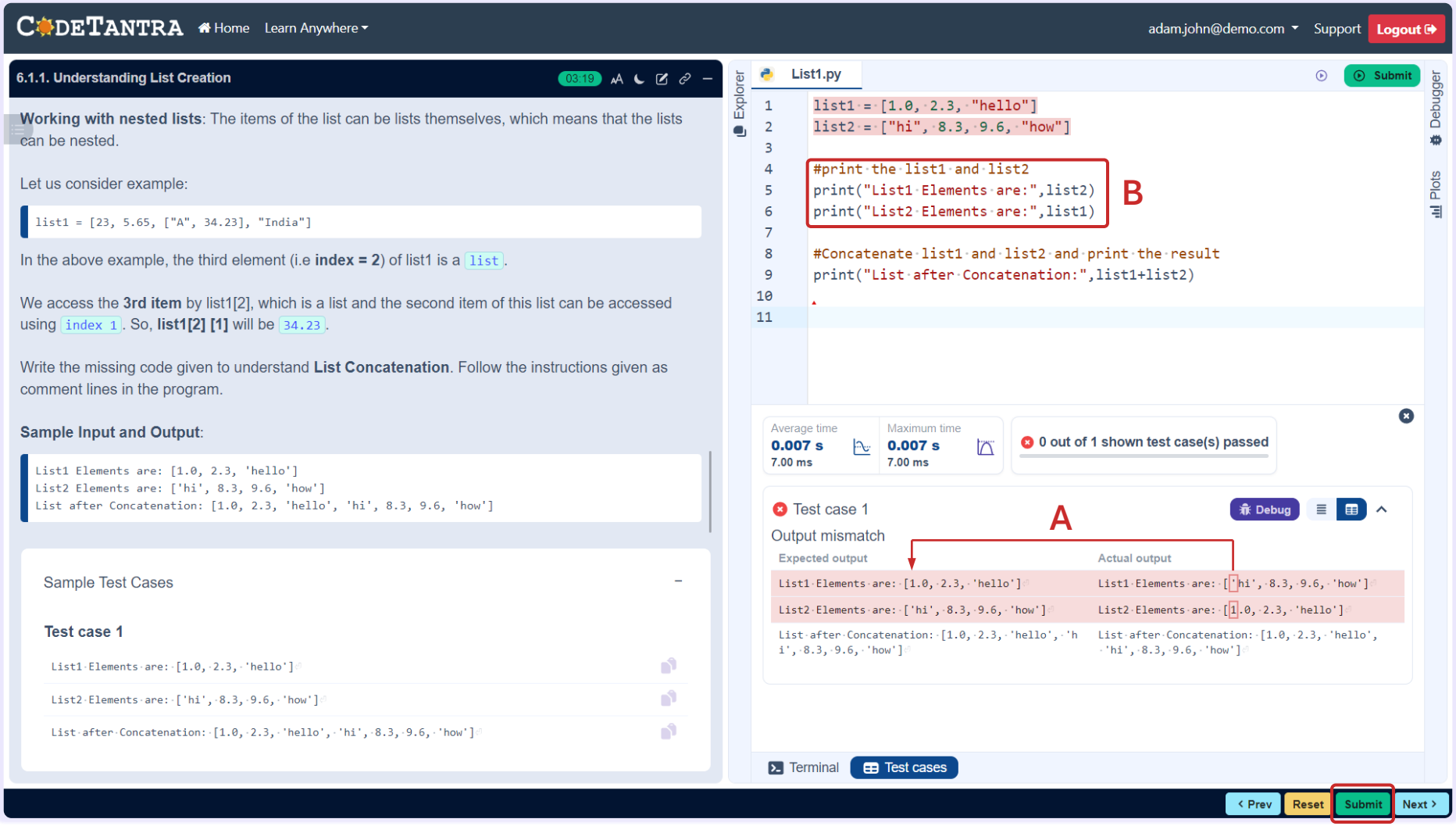


Solve a Coding Question

A. Coding Problem: Solve the problem by writing the code.

B. Submit: Click on the submit button to submit the code for auto-evaluation

C. Test Cases: This panel provides comparison of the *Expected output* and *Actual output*. These should match 100% character by character in the desired order. A problem will be considered solved only if all *shown* and *hidden* test cases are passed.



Output Comparison and Code Correction

A. Output Comparison: There are three output statements in Test Case 1. The mismatched character in the actual output has been highlighted in the first output statement using a red rectangle. The student should investigate the code to know why this is happening and make the required corrections in the code.

B. The test case failed because of the wrong order of list1 and list2 printing. Fixing this should resolve the problem.

More on Test Cases

What is a test case?
A test case is a specific combination of input and expected output used to validate the functionality of a program.

How are test cases used on the CodeTantra platform?
Test cases on the CodeTantra platform are employed to automatically evaluate programs written by students. For each test case, the platform inputs data into the student's program, and the program's output is compared to the expected output on a character-by-character basis.

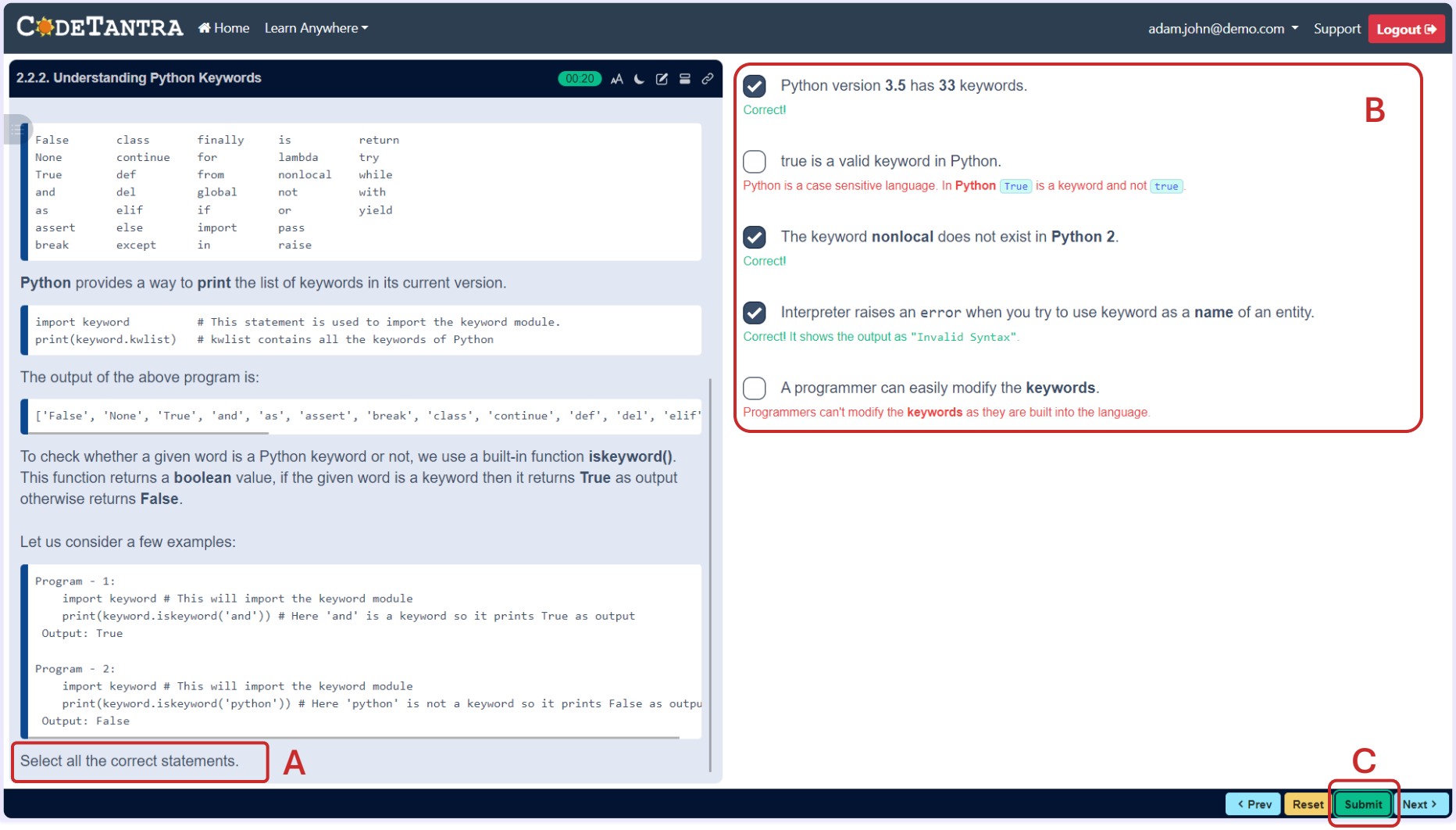
What constitutes a passed or failed test case?
A test case is considered passed if the program's actual output matches the expected output 100% for the given input. Otherwise, the test case is deemed to have failed.

Is output comparison case-sensitive?
Yes, the comparison is case-sensitive. For example, if the expected output is "CAT," and the program produces "cat," this will be considered a mismatch.

Does extra spacing in output lead to errors?
Yes, the comparison is performed character by character, so any extra leading, trailing, or intermediate spaces will cause the output to be considered incorrect. For instance, "CAT" and " CAT" are not equivalent because the first character differs.

What are the different types of test cases?
There are two main types of test cases:
Shown test cases: These are visible to students and can be used to debug the program to ensure it produces the correct output.
Hidden test cases: These are not shown to students. They are used to assess the correctness of the code, promoting deeper problem-solving skills as students are encouraged to consider all possible edge cases.

What is the weightage of a test case?
A program may include multiple test cases, each assigned a specific weight. The total weightage of all test cases sums to 100%. These weightages are used to partially evaluate the code and assign marks. Typically, shown test cases carry less weight compared to hidden test cases, and weightages need not be uniformly distributed among the test cases.



Solve a Multiple-Choice Question

A. Question: The question test usually appears at the bottom of the learning content panel.

B. Options: Select all the correct Options.

C. Submit: Click on the submit button to validate your selections. Clicking on submit may explain each option if all selected options are correct.

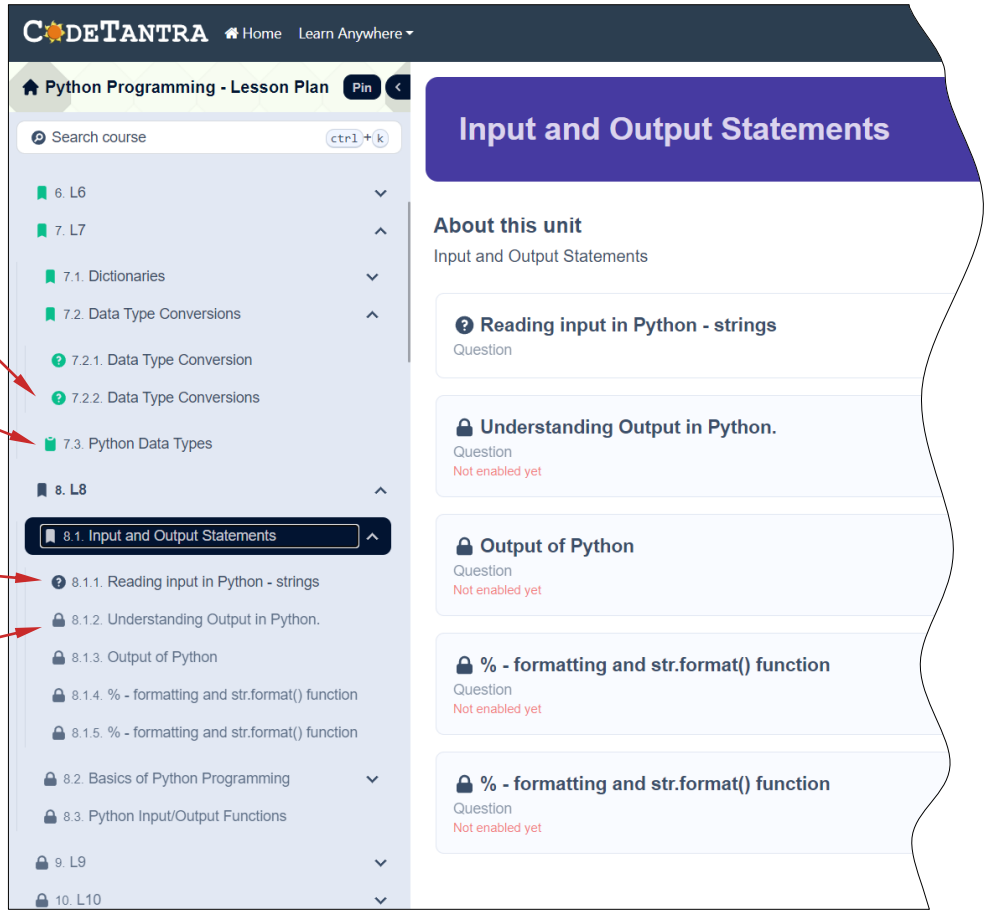
Understanding Content Tree...

Solved Question
The question marked in green with an icon of a question mark indicates a solved question

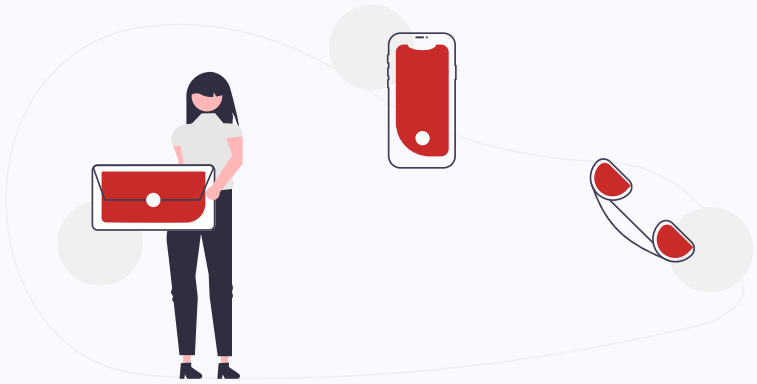
Test
The last question marked in green with an icon of a question mark indicates the last solved question

Unlocked Question
The question marked in grey with an icon of a question mark indicates an unlocked question

Locked Content
The content marked in grey with a lock symbol icon indicates locked content. Locked content can be unlocked after solving all previous questions if the course is configured to be completed sequentially.



Thank You



For any technical query,
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