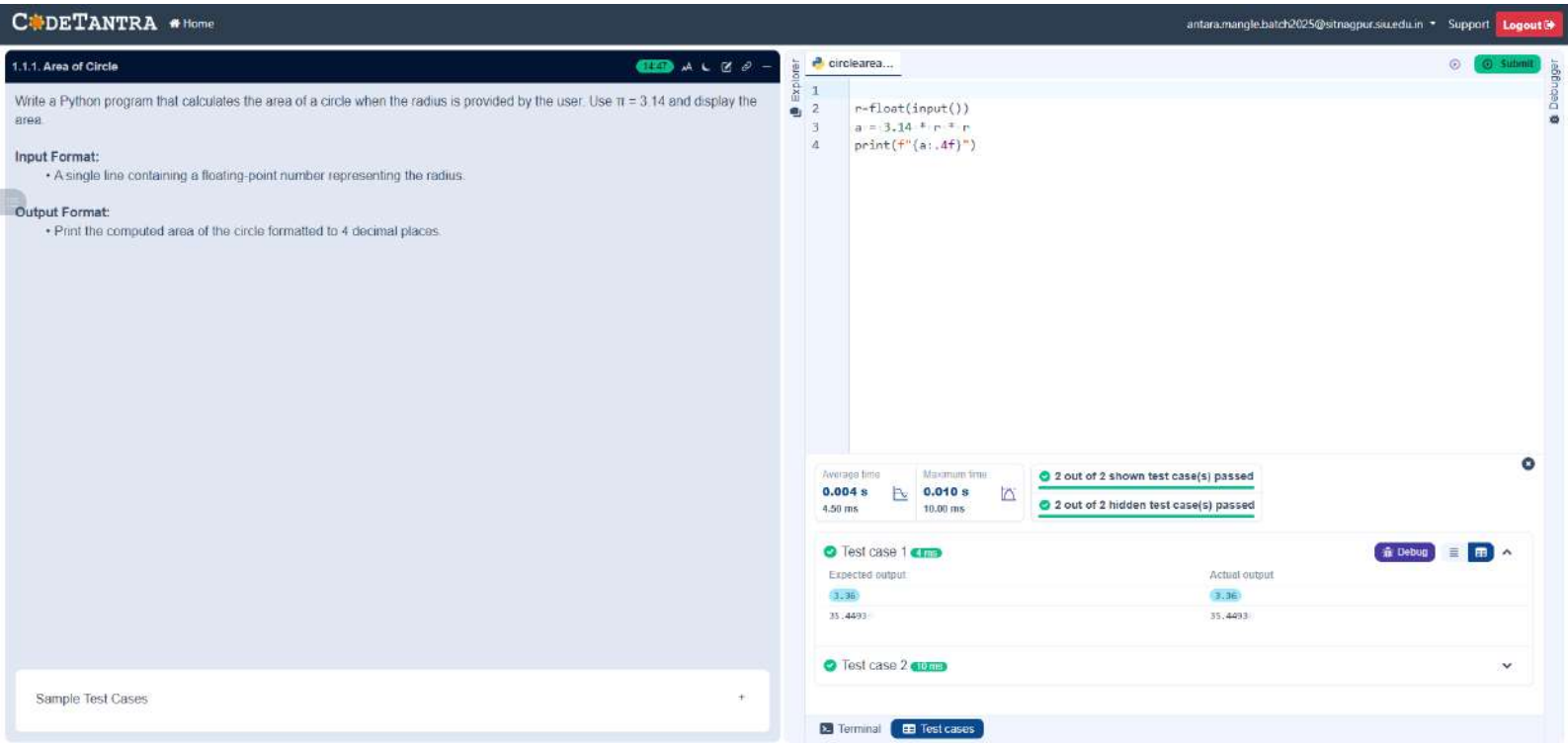
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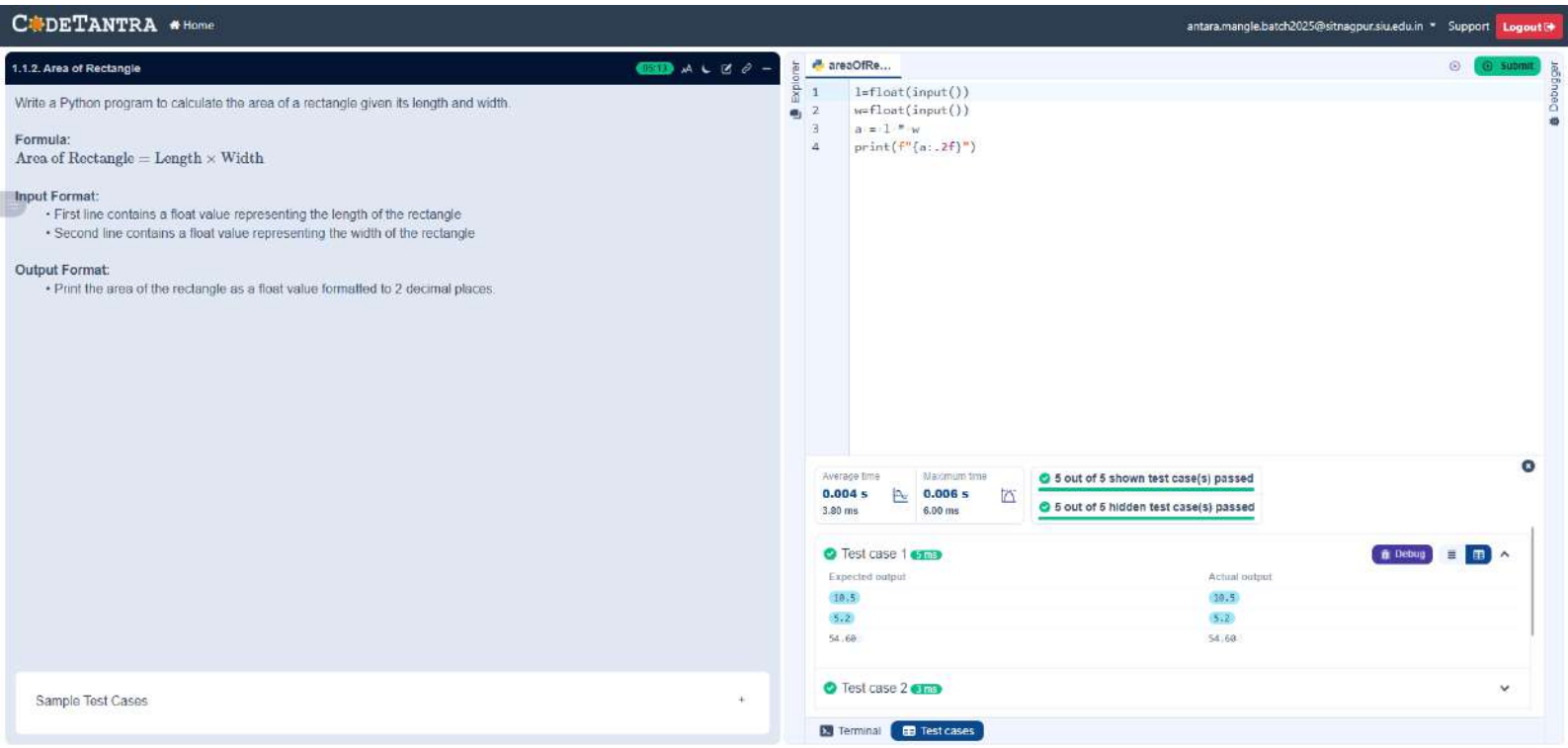
1.1.1. Area of Circle
14.47
Write a Python program that calculates the area of a circle when the radius is provided by the user. Use π = 3.14 and display the area.
Input Format:
• A single line containing a floating-point number representing the radius.
Output Format:
• Print the computed area of the circle formatted to 4 decimal places.
Sample Test Cases
Explorer
circlearea...
Submit
Debugger
1
2
3
4
r=float(input())
a = 3.14 * r ** r
print(f"{a:.4f}")
Average time
0.004 s
4.50 ms
Maximum time
0.010 s
10.00 ms
2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed
Test case 1
4 ms
Debug
Expected output
Actual output
3.36
35.4493
3.36
35.4493
Test case 2
10 ms
Terminal
Test cases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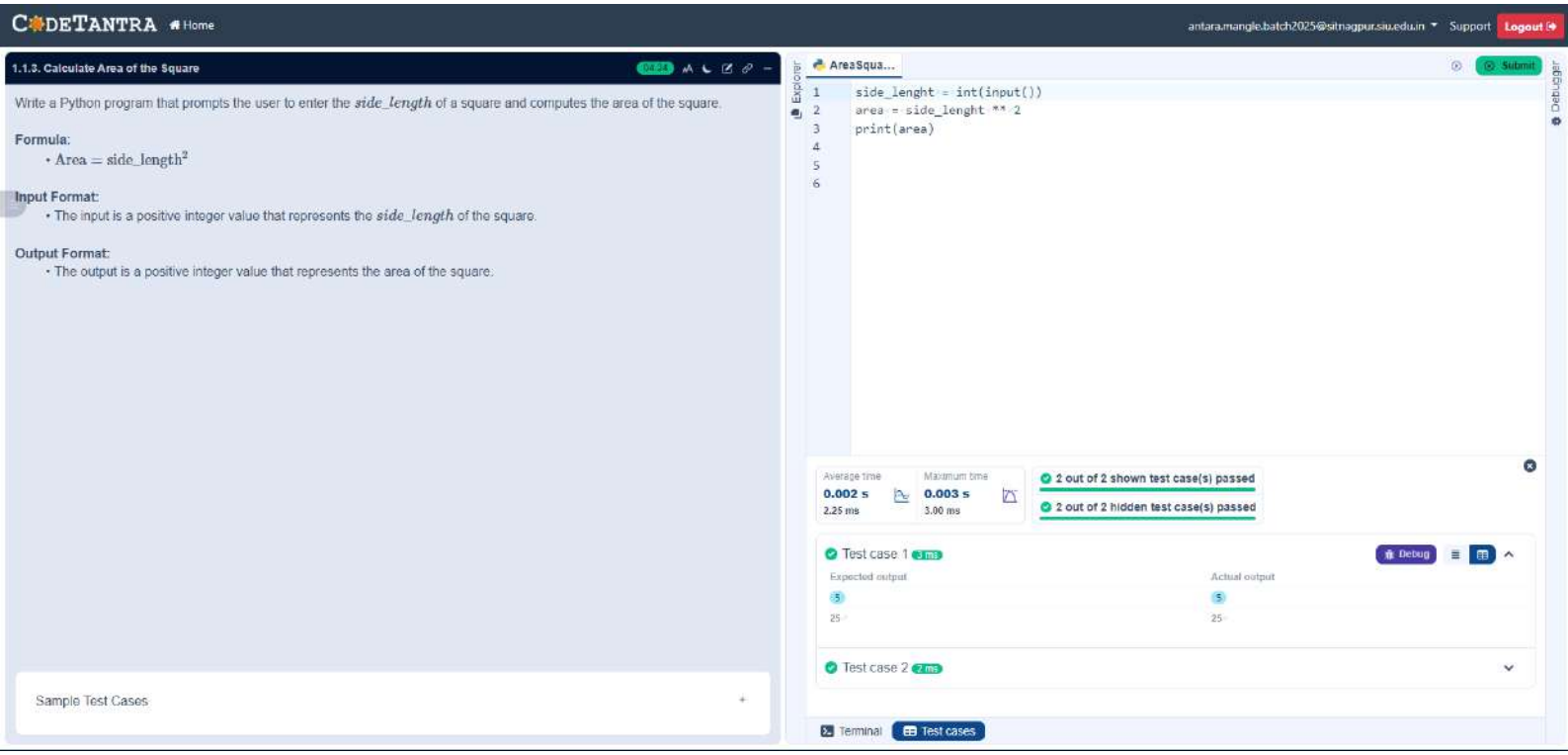
1.1.2. Area of Rectangle
Write a Python program to calculate the area of a rectangle given its length and width.
Formula:
Area of Rectangle = Length × Width
Input Format:
• First line contains a float value representing the length of the rectangle
• Second line contains a float value representing the width of the rectangle
Output Format:
• Print the area of the rectangle as a float value formatted to 2 decimal places.
Sample Test Cases
Explorer
areaOfRe...
Submit
Debugger
1 l=float(input())
2 w=float(input())
3 a = l * w
4 print(f"{a:.2f}")
Average time
0.004 s
3.80 ms
Maximum time
0.006 s
6.00 ms
5 out of 5 shown test case(s) passed
5 out of 5 hidden test case(s) passed
Test case 1 5 ms
Debug
Expected output
Actual output
10.5
5.2
54.60
10.5
5.2
54.60
Test case 2 3 ms
Terminal
Test cases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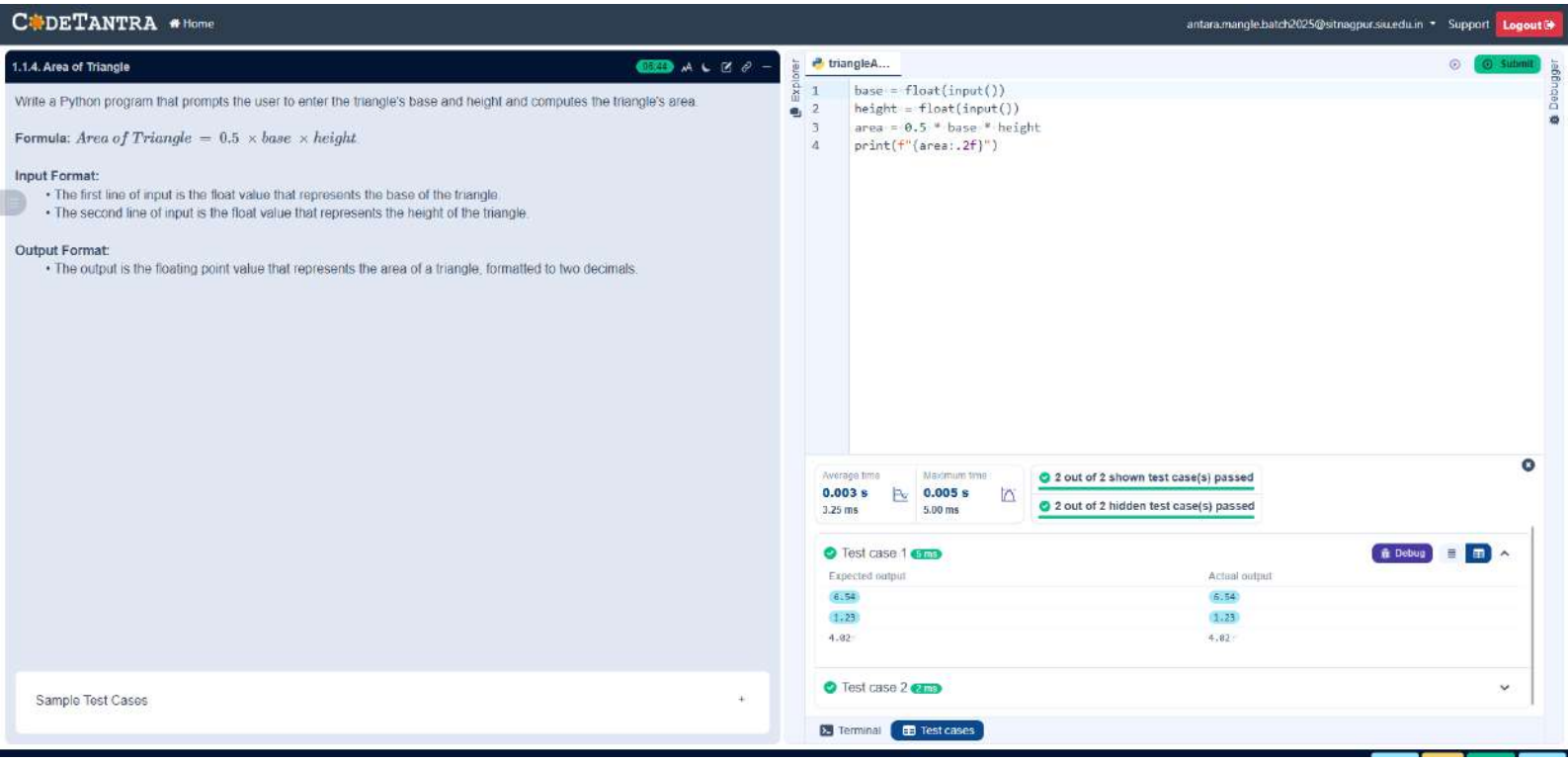
1.1.3. Calculate Area of the Square
Write a Python program that prompts the user to enter the side_length of a square and computes the area of the square.
Formula:
• Area = side_length²
Input Format:
• The input is a positive integer value that represents the side_length of the square.
Output Format:
• The output is a positive integer value that represents the area of the square.
Sample Test Cases
Explorer
AreaSqua...
Submit
Debugger
1 side_lenght = int(input())
2 area = side_lenght ** 2
3 print(area)
4
5
6
Average time
0.002 s
2.25 ms
Maximum time
0.003 s
3.00 ms
2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed
Test case 1 3 ms
Debug
Expected output
5
25
Actual output
5
25
Test case 2 2 ms
Terminal
Test cases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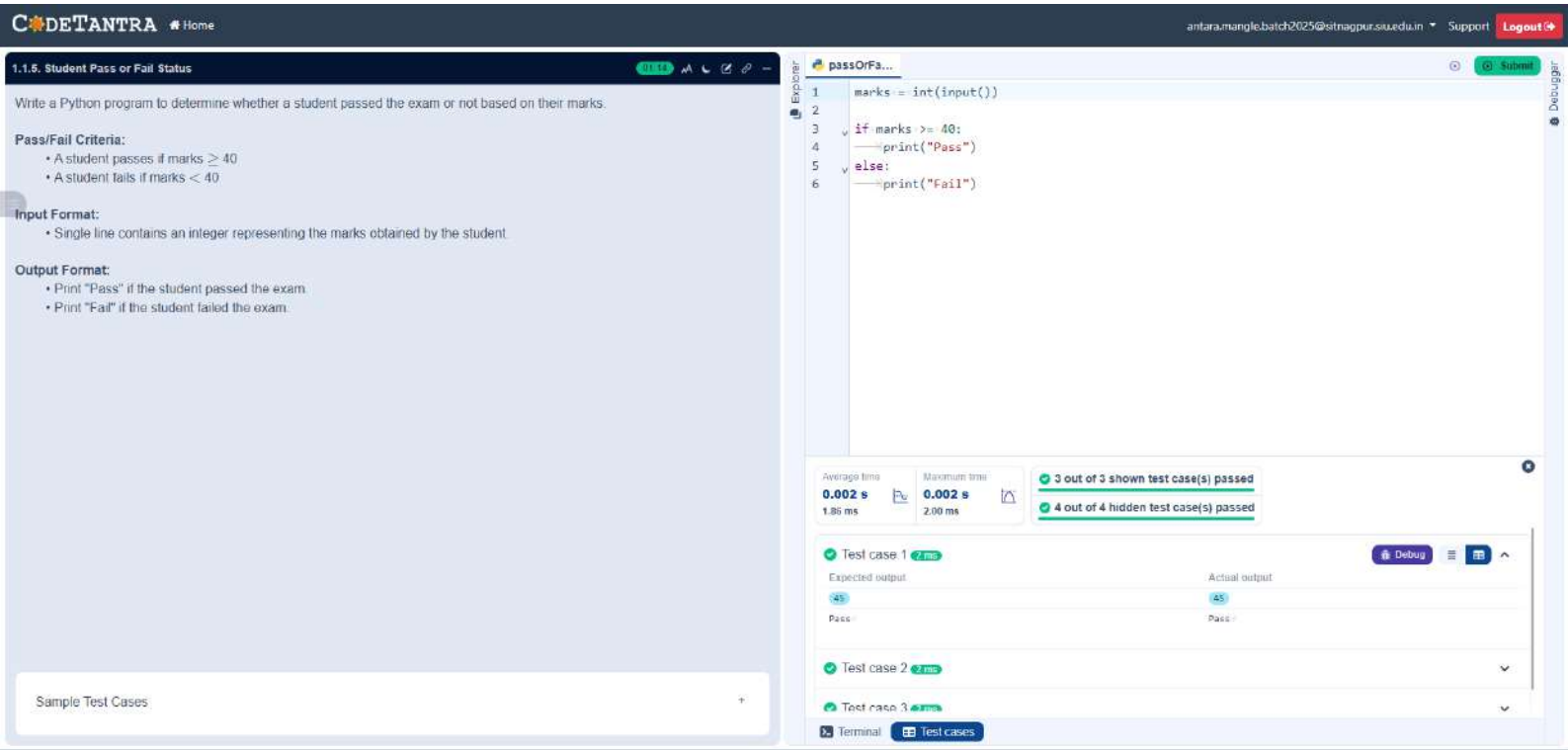
1.1.4. Area of Triangle
05:44
Write a Python program that prompts the user to enter the triangle's base and height and computes the triangle's area.
Formula: $Area\ of\ Triangle = 0.5 \times base \times height$
Input Format:
• The first line of input is the float value that represents the base of the triangle.
• The second line of input is the float value that represents the height of the triangle.
Output Format:
• The output is the floating point value that represents the area of a triangle, formatted to two decimals.
Sample Test Cases
Explorer
triangleA...
Submit
Debugger
1 base = float(input())
2 height = float(input())
3 area = 0.5 * base * height
4 print(f"{area:.2f}")
Average time
0.003 s
3.25 ms
Maximum time
0.005 s
5.00 ms
2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed
Test case 1
5 ms
Debug
Expected output
Actual output
6.54
1.23
4.02
Test case 2
2 ms
Terminal
Test cases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1.1.5. Student Pass or Fail Status
Write a Python program to determine whether a student passed the exam or not based on their marks.
Pass/Fail Criteria:
• A student passes if marks ≥ 40
• A student fails if marks < 40
Input Format:
• Single line contains an integer representing the marks obtained by the student.
Output Format:
• Print "Pass" if the student passed the exam.
• Print "Fail" if the student failed the exam.
Sample Test Cases
passOrFa...
Submit
Explorer
Debugger
1 marks = int(input())
2
3 if marks >= 40:
4 print("Pass")
5 else:
6 print("Fail")
Average time
0.002 s
1.86 ms
Maximum time
0.002 s
2.00 ms
3 out of 3 shown test case(s) passed
4 out of 4 hidden test case(s) passed
Test case 1 2 ms
Debug
Expected output
45
Pass
Actual output
45
Pass
Test case 2 2 ms
Test case 3 2 ms
Terminal
Test cases

2.1.1. Roots of a Quadratic Equation

Write a program to find the roots of a quadratic equation, given its coefficients a, b, and c. Use the quadratic formula:

$$\frac{\left(-b \pm \sqrt{b^2 - 4ac}\right)}{2a}$$

The discriminant $D = b^2 - 4ac$ determines the nature of the roots:

- If $D > 0$: Roots are real and different
- If $D = 0$: Roots are real and the same
- If $D < 0$: Roots are imaginary

Input Format:

- Three space-separated integers representing the coefficients a, b, and c, respectively.

Output Format:

- If roots are real and different, print:

```
root1 = <Root1>
root2 = <Root2>
```

- If roots are the same, print:

```
root1 = root2 = <Root1>
```

- If roots are imaginary, print:

```
root1 = <RealPart>+<ImaginaryPart>i
root2 = <RealPart>-<ImaginaryPart>i
```

- All values should be formatted to two decimal places.

Sample Test Cases +

quadratic... Submit

```python
import math
a, b, c = map(int, input().split())

D = b * b - 4 * a * c

if D > 0:
    root1 = (-b + math.sqrt(D)) / (2 * a)
    root2 = (-b - math.sqrt(D)) / (2 * a)
    print(f"root1 = {root1:.2f}")
    print(f"root2 = {root2:.2f}")

elif D == 0:
    root = -b / (2 * a)
    print(f"root1 = root2 = {root:.2f}")

else:
    real_part = -b / (2 * a)
    imaginary_part = math.sqrt(-D) / (2 * a)
    print(f"root1 = {real_part:.2f}+{imaginary_part:.2f}i")
    print(f"root2 = {real_part:.2f}-{imaginary_part:.2f}i")
```

Average time 0.006 s (6.17 ms) Maximum time 0.021 s (21.00 ms)

3 out of 3 shown test case(s) passed

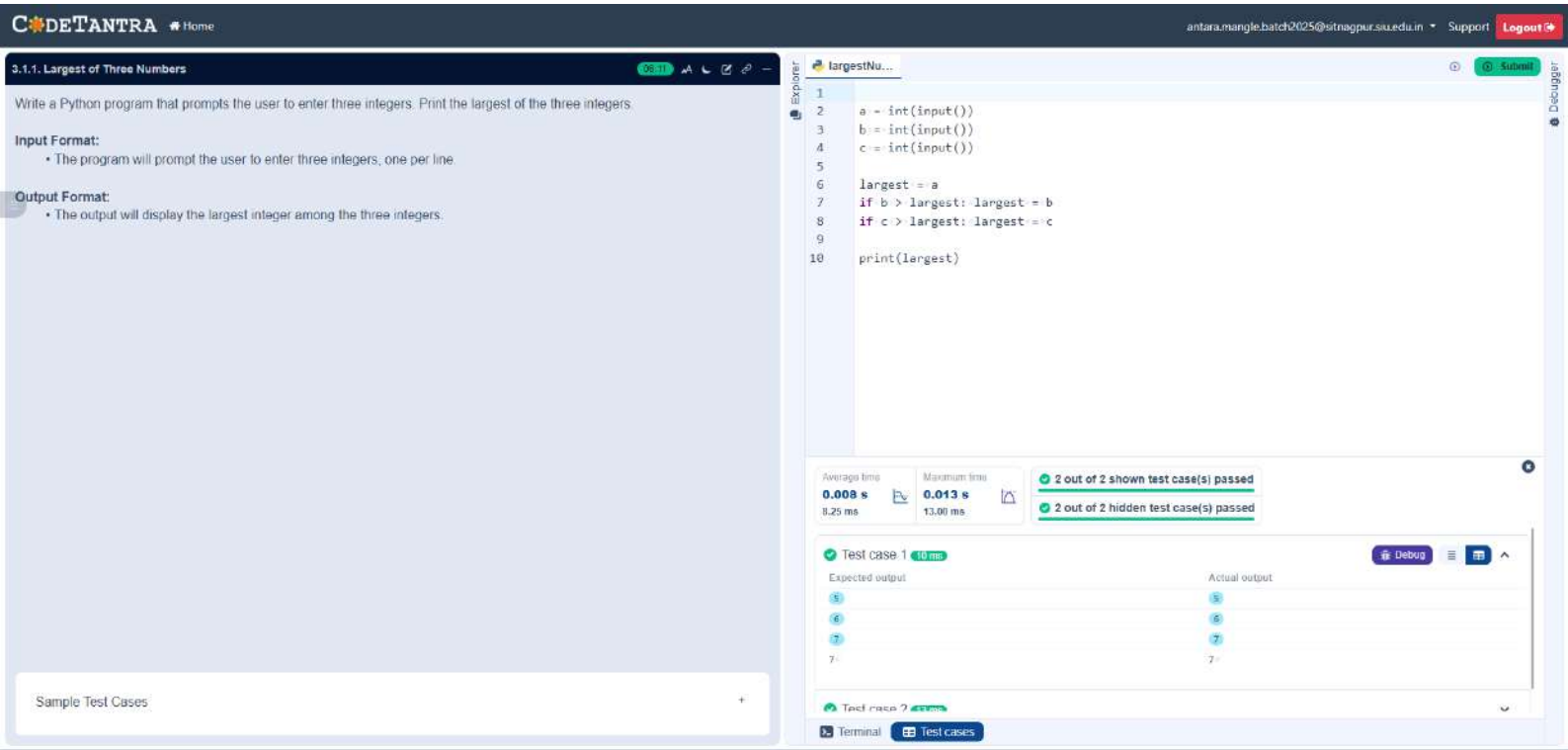
3 out of 3 hidden test case(s) passed

Test case 1 21 ms Debug

Expected output	Actual output
1 -5 6	1 -5 6
root1 = 3.00	root1 = 3.00
root2 = 2.00	root2 = 2.00

Test case 2 4 ms

Terminal Test cases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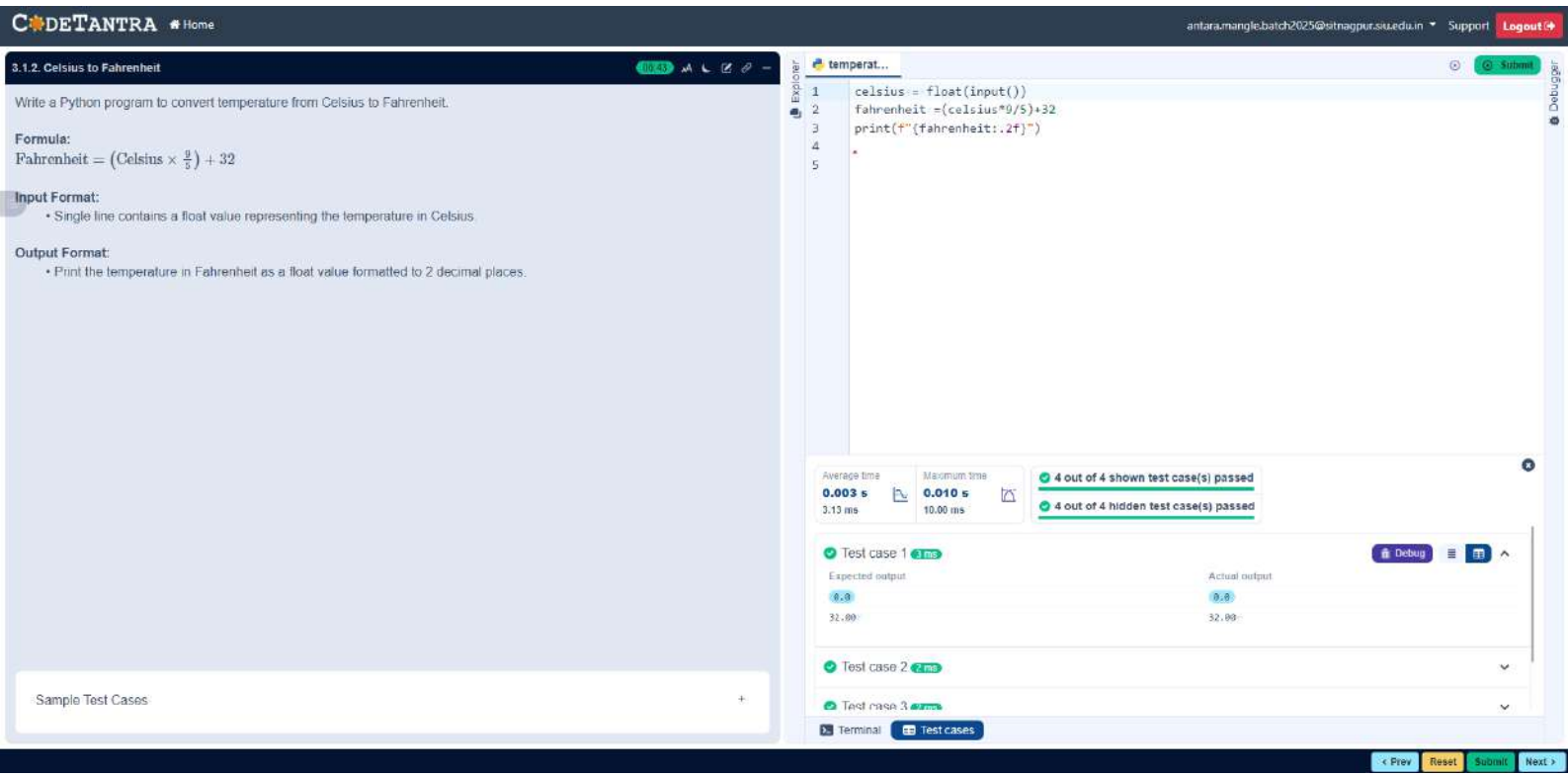
3.1.1. Largest of Three Numbers
Write a Python program that prompts the user to enter three integers. Print the largest of the three integers.
Input Format:
• The program will prompt the user to enter three integers, one per line
Output Format:
• The output will display the largest integer among the three integers.
Sample Test Cases
largestNu...
Submit
Explorer
Debugger
1
2 a = int(input())
3 b = int(input())
4 c = int(input())
5
6 largest = a
7 if b > largest: largest = b
8 if c > largest: largest = c
9
10 print(largest)
Average time
0.008 s
8.25 ms
Maximum time
0.013 s
13.00 ms
2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed
Test case 1
10 ms
Debug
Expected output
Actual output
5
6
7
Terminal
Test cases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3.1.2. Celsius to Fahrenheit
00:43
Write a Python program to convert temperature from Celsius to Fahrenheit.
Formula:
$\text{Fahrenheit} = (\text{Celsius} \times \frac{9}{5}) + 32$
Input Format:
• Single line contains a float value representing the temperature in Celsius.
Output Format:
• Print the temperature in Fahrenheit as a float value formatted to 2 decimal places.
Sample Test Cases
temperat...
Submit
Explorer
Debugger
1 celsius = float(input())
2 fahrenheit =(celsius*9/5)+32
3 print(f"{fahrenheit:.2f}")
4
5
Average time
0.003 s
3.13 ms
Maximum time
0.010 s
10.00 ms
4 out of 4 shown test case(s) passed
4 out of 4 hidden test case(s) passed
Test case 1 3 ms
Debug
Expected output
0.0
32.00
Actual output
0.0
32.00
Test case 2 2 ms
Test case 3 2 ms
Terminal
Test cases
< Prev
Reset
Submit
Next >