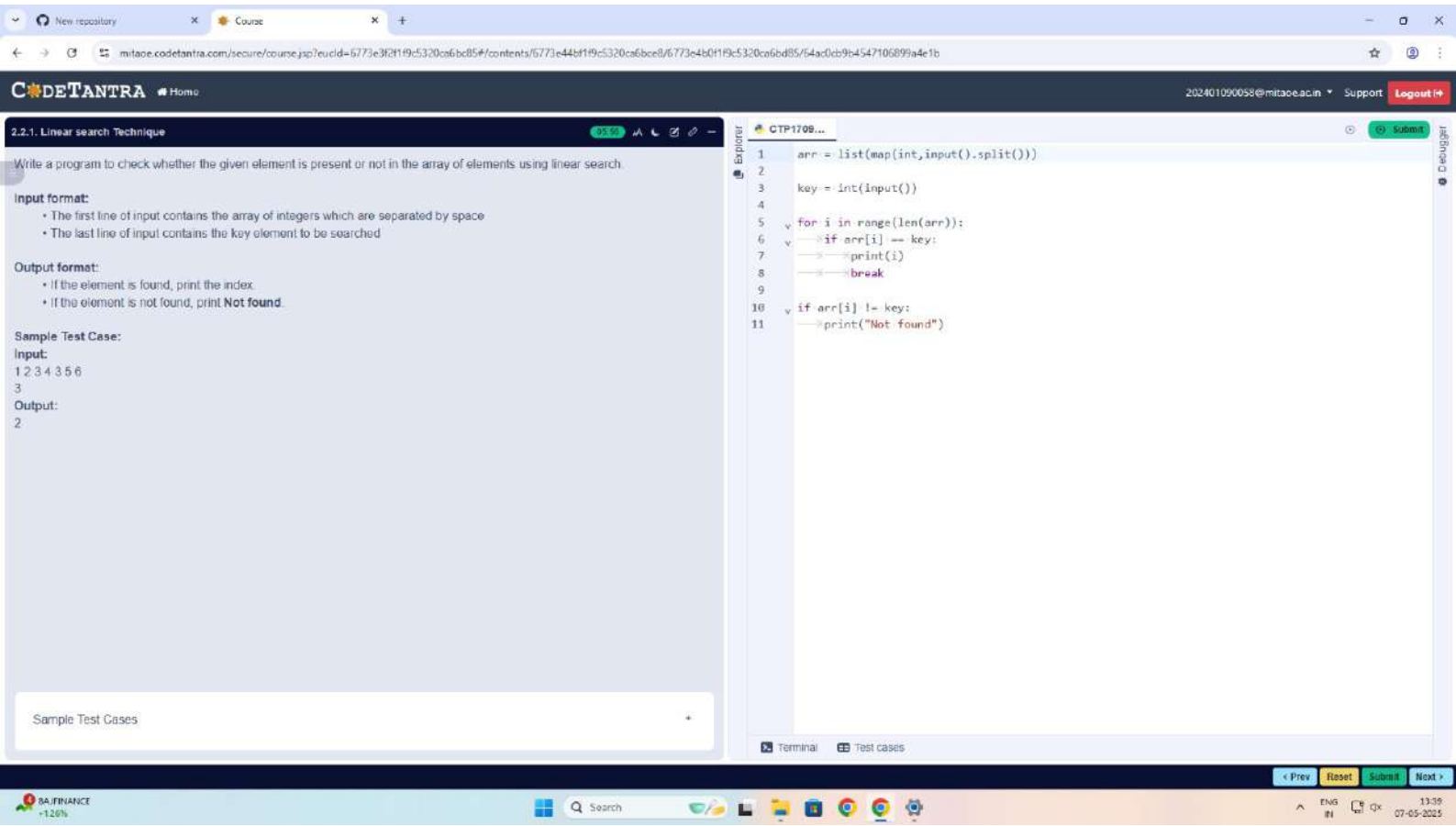
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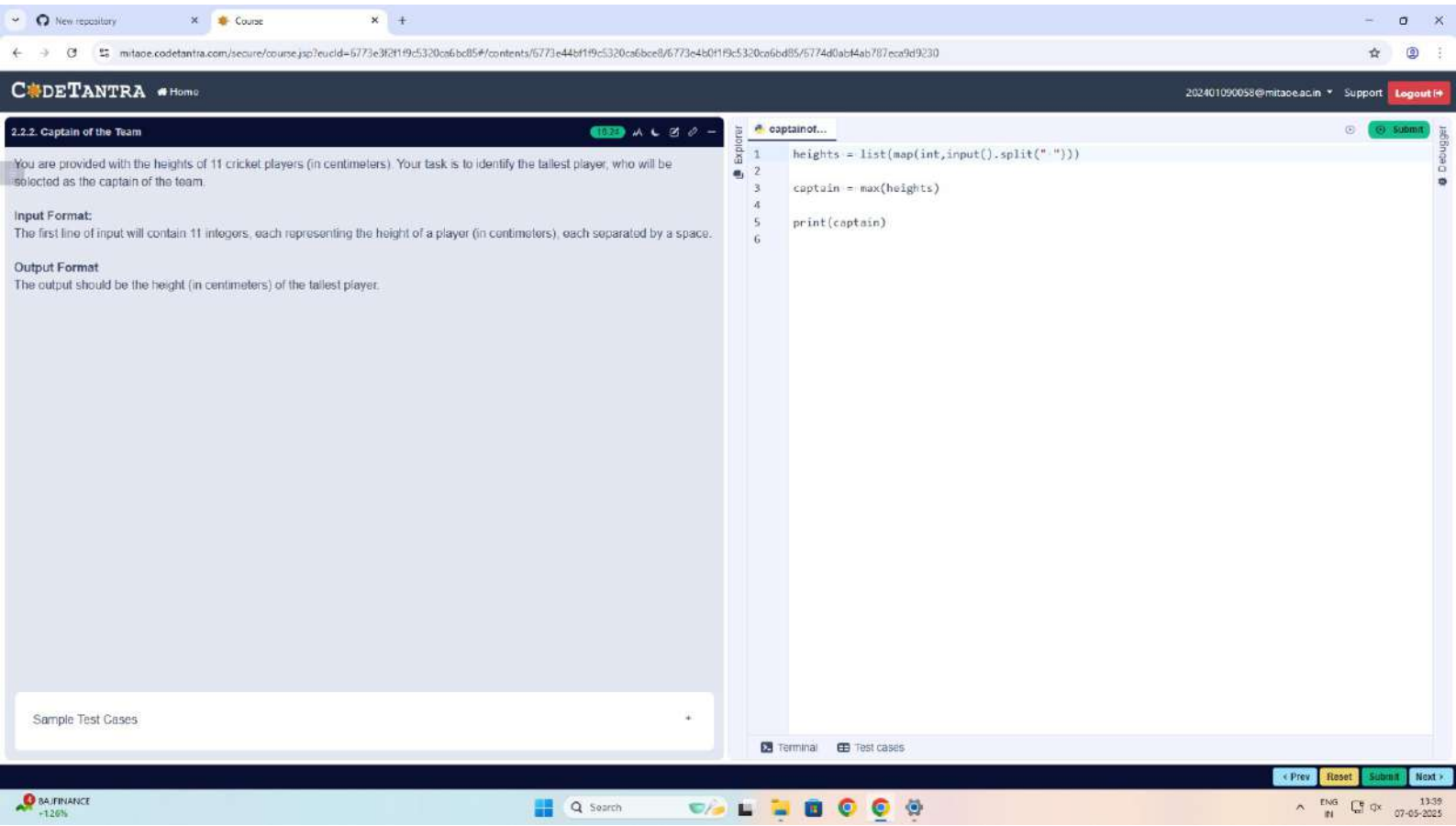
2.2.1. Linear search Technique
05:50
Write a program to check whether the given element is present or not in the array of elements using linear search.
Input format:
• The first line of input contains the array of integers which are separated by space
• The last line of input contains the key element to be searched
Output format:
• If the element is found, print the index.
• If the element is not found, print Not found.
Sample Test Case:
Input:
1 2 3 4 3 5 6
3
Output:
2
Sample Test Cases
Explorer
CTP1709...
Submit
1 arr = list(map(int,input().split()))
2
3 key = int(input())
4
5 for i in range(len(arr)):
6 if arr[i] == key:
7 print(i)
8 break
9
10 if arr[i] != key:
11 print("Not found")
Terminal
Test cases
‹ Prev
Reset
Submit
Next ›
BAJFINANCE
+1.26%
Search
ENG
IN
13:39
07-05-2025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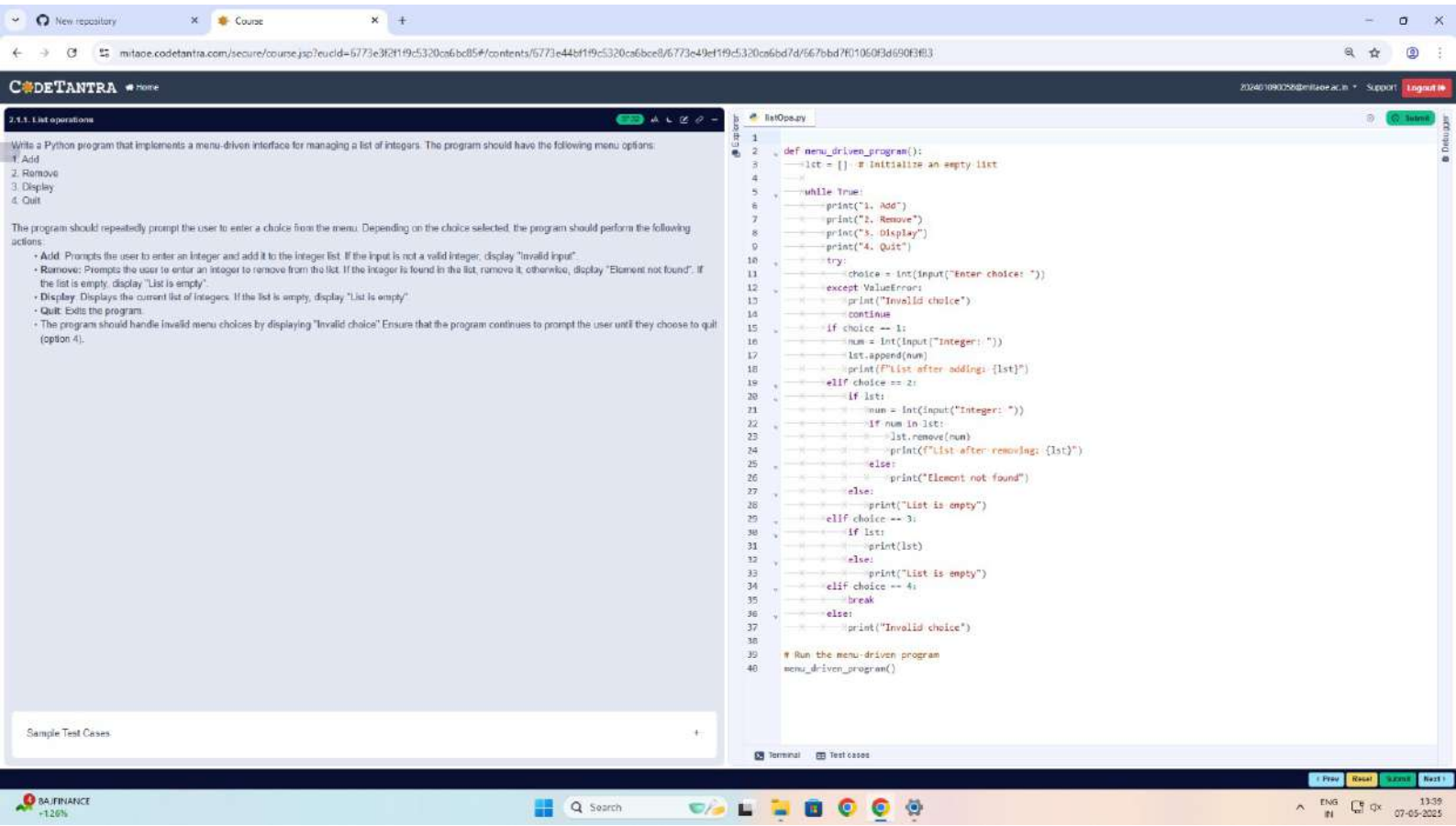
2.2.2. Captain of the Team
10:22
You are provided with the heights of 11 cricket players (in centimeters). Your task is to identify the tallest player, who will be selected as the captain of the team.
Input Format:
The first line of input will contain 11 integers, each representing the height of a player (in centimeters), each separated by a space.
Output Format
The output should be the height (in centimeters) of the tallest player.
Sample Test Cases
Explorer
captainof...
Submit
1 heights = list(map(int,input().split(" ")))
2
3 captain = max(heights)
4
5 print(captain)
6
Terminal
Test cases
‹ Prev
Reset
Submit
Next ›
BAJFINANCE
+1.26%
Search
ENG
IN
13:39
07-05-2025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Course
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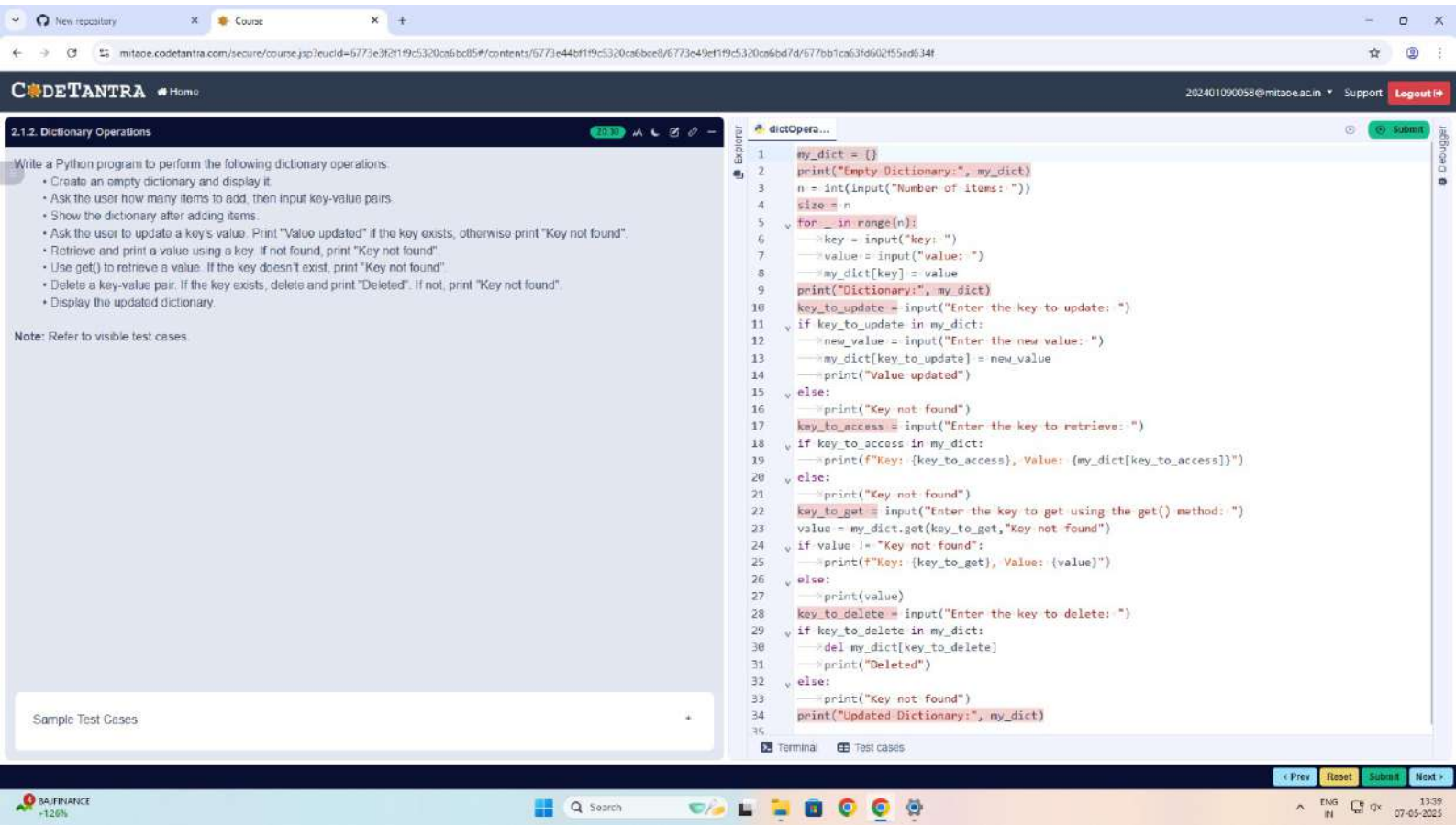
2.1.1. List operations
Write a Python program that implements a menu-driven interface for managing a list of integers. The program should have the following menu options:
1. Add
2. Remove
3. Display
4. Quit
The program should repeatedly prompt the user to enter a choice from the menu. Depending on the choice selected, the program should perform the following actions:
• Add: Prompts the user to enter an integer and add it to the integer list. If the input is not a valid integer, display "Invalid input".
• Remove: Prompts the user to enter an integer to remove from the list. If the integer is found in the list, remove it; otherwise, display "Element not found". If the list is empty, display "List is empty".
• Display: Displays the current list of integers. If the list is empty, display "List is empty".
• Quit: Exits the program.
• The program should handle invalid menu choices by displaying "Invalid choice". Ensure that the program continues to prompt the user until they choose to quit (option 4).
Sample Test Cases
listOps.py
Submit
def menu_driven_program():
lst = [] # Initialize an empty list
while True:
print("1. Add")
print("2. Remove")
print("3. Display")
print("4. Quit")
try:
choice = int(input("Enter choice: "))
except ValueError:
print("Invalid choice")
continue
if choice == 1:
num = int(input("Integer: "))
lst.append(num)
print(f"List after adding: {lst}")
elif choice == 2:
if lst:
num = int(input("Integer: "))
if num in lst:
lst.remove(num)
print(f"List after removing: {lst}")
else:
print("Element not found")
else:
print("List is empty")
elif choice == 3:
if lst:
print(lst)
else:
print("List is empty")
elif choice == 4:
break
else:
print("Invalid choice")
# Run the menu-driven program
menu_driven_program()
Terminal
Test cases
Prev
Reset
Submit
Next
BAJFINANCE
+1.26%
Search
ENG
IN
13:39
07-05-2025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Course
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2.1.2. Dictionary Operations
10 XP
Write a Python program to perform the following dictionary operations:
• Create an empty dictionary and display it.
• Ask the user how many items to add, then input key-value pairs.
• Show the dictionary after adding items.
• Ask the user to update a key's value. Print "Value updated" if the key exists, otherwise print "Key not found".
• Retrieve and print a value using a key. If not found, print "Key not found".
• Use get() to retrieve a value. If the key doesn't exist, print "Key not found".
• Delete a key-value pair. If the key exists, delete and print "Deleted". If not, print "Key not found".
• Display the updated dictionary.
Note: Refer to visible test cases.
Sample Test Cases
Explorer
dictOpera...
Submit
Debugger
1 my_dict = {}
2 print("Empty Dictionary:", my_dict)
3 n = int(input("Number of items: "))
4 size = n
5 for _ in range(n):
6 key = input("key: ")
7 value = input("value: ")
8 my_dict[key] = value
9 print("Dictionary:", my_dict)
10 key_to_update = input("Enter the key to update: ")
11 if key_to_update in my_dict:
12 new_value = input("Enter the new value: ")
13 my_dict[key_to_update] = new_value
14 print("Value updated")
15 else:
16 print("Key not found")
17 key_to_access = input("Enter the key to retrieve: ")
18 if key_to_access in my_dict:
19 print(f"Key: {key_to_access}, Value: {my_dict[key_to_access]}")
20 else:
21 print("Key not found")
22 key_to_get = input("Enter the key to get using the get() method: ")
23 value = my_dict.get(key_to_get,"Key not found")
24 if value != "Key not found":
25 print(f"Key: {key_to_get}, Value: {value}")
26 else:
27 print(value)
28 key_to_delete = input("Enter the key to delete: ")
29 if key_to_delete in my_dict:
30 del my_dict[key_to_delete]
31 print("Deleted")
32 else:
33 print("Key not found")
34 print("Updated Dictionary:", my_dict)
Terminal
Test cases
‹ Prev
Reset
Submit
Next ›
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+1.26%
Search
ENG
IN
13:39
07-05-2025