

Python Programming

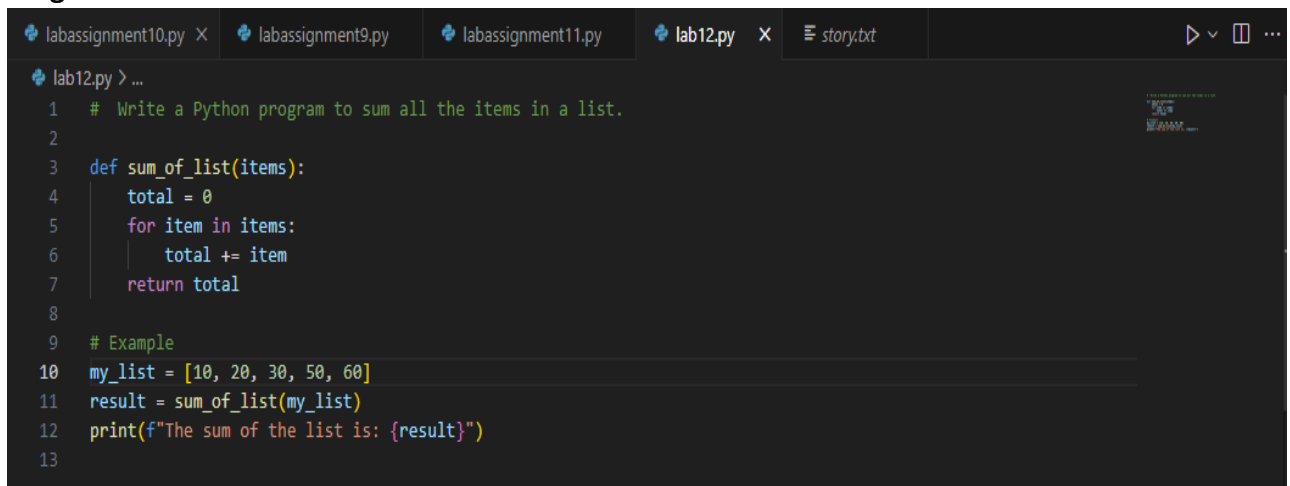
Lab:- 12(List)

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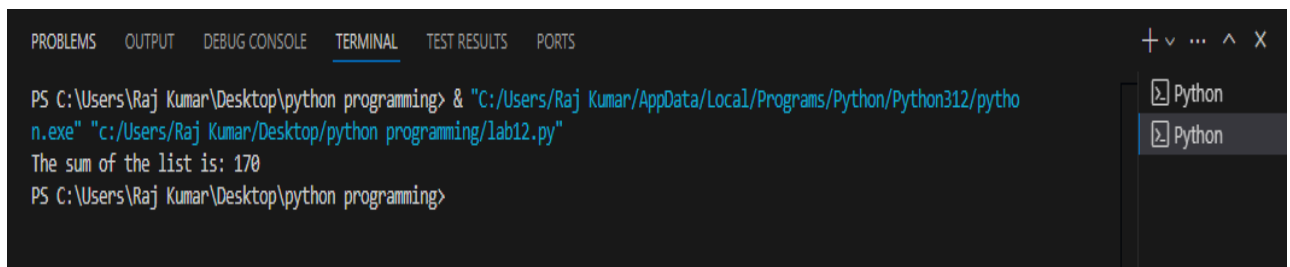
1. Write a Python program to sum all the items in a list.

Program :-



```
lab12.py > ...
1  # Write a Python program to sum all the items in a list.
2
3  def sum_of_list(items):
4      total = 0
5      for item in items:
6          total += item
7      return total
8
9  # Example
10 my_list = [10, 20, 30, 50, 60]
11 result = sum_of_list(my_list)
12 print(f"The sum of the list is: {result}")
13
```

Output:-

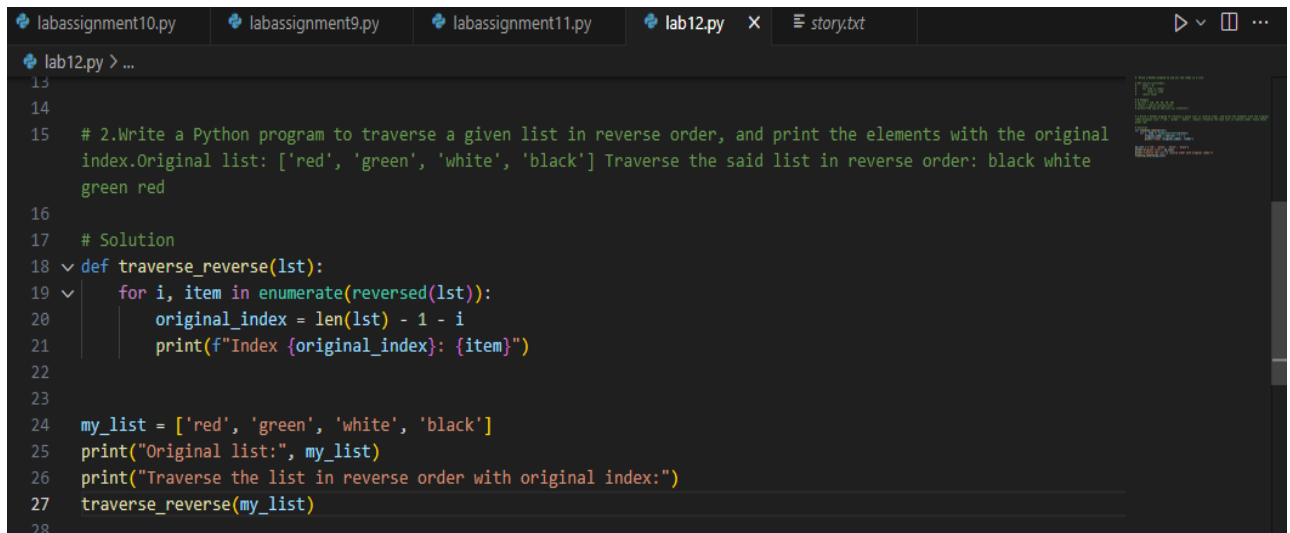


```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  TEST RESULTS  PORTS
PS C:\Users\Raj Kumar\Desktop\python programming> & "C:/Users/Raj Kumar/AppData/Local/Programs/Python/Python312/python.exe" "c:/Users/Raj Kumar/Desktop/python programming/lab12.py"
The sum of the list is: 170
PS C:\Users\Raj Kumar\Desktop\python programming>
```

2. Write a Python program to traverse a given list in reverse order, and print the elements with the original index.

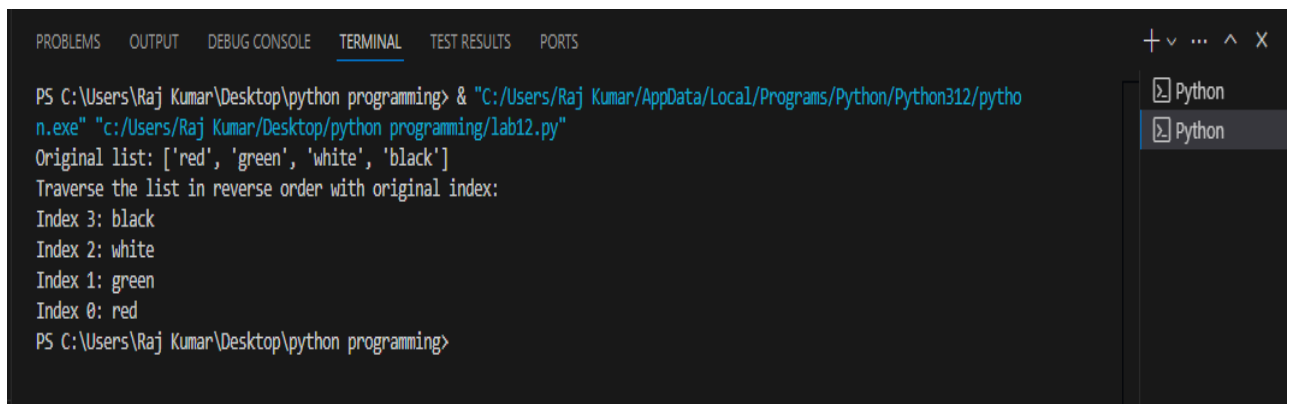
Original list: ['red', 'green', 'white', 'black'] Traverse the said list in reverse order: black white green red

Program:-



```
lab12.py > ...
13
14
15 # 2. Write a Python program to traverse a given list in reverse order, and print the elements with the original
    index. Original list: ['red', 'green', 'white', 'black'] Traverse the said list in reverse order: black white
    green red
16
17 # Solution
18 def traverse_reverse(lst):
19     for i, item in enumerate(reversed(lst)):
20         original_index = len(lst) - 1 - i
21         print(f"Index {original_index}: {item}")
22
23
24 my_list = ['red', 'green', 'white', 'black']
25 print("Original list:", my_list)
26 print("Traverse the list in reverse order with original index:")
27 traverse_reverse(my_list)
28
```

Output:-



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL TEST RESULTS PORTS
PS C:\Users\Raj Kumar\Desktop\python programming> & "C:/Users/Raj Kumar/AppData/Local/Programs/Python/Python312/pytho
n.exe" "c:/Users/Raj Kumar/Desktop/python programming/lab12.py"
Original list: ['red', 'green', 'white', 'black']
Traverse the list in reverse order with original index:
Index 3: black
Index 2: white
Index 1: green
Index 0: red
PS C:\Users\Raj Kumar\Desktop\python programming>
```