Exp No 10 (Python)

April 13, 2024

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[1]: # Write a Program to find the length of a list using recursion in python
[2]: #Method 01
[3]: len = 0
     def length1(a):
         global len
         if a:
             len = len + 1
             length1(a[1:])
         return len
[4]: my_list1 = [1, 2, 3, 4, 5, 6]
     len1 = length1(my_list1)
    print("The length of the list is:", len1)
    The length of the list is: 6
[]:
[5]:
     #Method 02
[6]: def length2(a):
         if not a:
             return 0
         else:
             return 1 + length2(a[1:])
[7]: my_list2 = [7,8,9,10]
     len2 = length2(my_list2)
     print("The length of the list is:", len2)
    The length of the list is: 4
```