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```
In [2]: #1.write a programming to Reverse a list without using the reverse() method (use slicing or a loop).
         li=[1,2,3,4,5,6,7,8]
         li[::-1]
Out[2]: [8, 7, 6, 5, 4, 3, 2, 1]
In [5]: #2.Remove all occurrences of a specific element from a list.
         li=[1,2,3,4,2,2,5,6,2,6]
         remove ele=2
         while remove ele in li:
             li.remove(remove ele)
         print(li)
        [1, 3, 4, 5, 6, 6]
In [12]: #3.write a program to Find the second Largest number in a list.
         data=[21,43,12,75,83,73,80]
         if len(data) < 2:</pre>
             print("List contain more than 2 number")
         elif data[0] > data[1]:
             largest = data[0]
             sec lar = data[1]
         else:
             largest = data[1]
             sec lar = data[0]
         for num in data[2:]:
             if num > largest:
                  sec_lar = largest
                  largest = num
             elif num > sec_lar and num != largest:
                 sec lar = num
         print("second largest no:",sec lar)
        second largest no: 80
In [15]: #4. Use list comprehension to create a list of all even numbers between 1 and 20 (inclusive)
         num=["even" if i%2==0 else "odd" for i in range(1,20)]
         print(num)
```

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```
['odd', 'even', 'odd', 'even', 'eve
                    'even', 'odd']
In [18]: #5. Given a list of numbers, use list comprehension to create a new list containing only the numbers greater than 5.
                      li=[2,3,4,5,6,15,20,13]
                      label=[i for i in li if i>5]
                      print(label)
                    [6, 15, 20, 13]
In [21]: #6. Given a list, remove a specific range of elements (defined by start and end indices) using the del keyword and slicing.
                      fruits=["Cherry", "Apple", "Banana", "Orange", "Mango", "Berries"]
                       print(len(fruits))
                      del fruits[2:5]
                      print(fruits)
                    ['Cherry', 'Apple', 'Berries']
In [22]: #7. Given a list of words, use list comprehension to create a new list containing the length of each word.
                      fruits=["Cherry", "Apple", "Banana", "Orange", "Mango", "Berries"]
                      res=[len(frt) for frt in fruits]
                      print(res)
                    [6, 5, 6, 6, 5, 7]
  In [ ]: #8. Write a function that takes a list and a value as input and removes all occurrences of that value from the list in-place.
                      li=input("Enter a list")
                      val=input("Enter a value")
                      print(li)
                      li2=li.split()
                      print(li2)
                      while val in li2:
                                li2.remove(val)
                      print(li2)
In [25]: #9. Write a program that takes a string as input, converts it into a list of characters, reverses the list,
                      #and then joins the characters back into a reversed string. Print the reversed string.
                       s=input("Enter a string")
                      print(s)
```

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```
li=list(s)
         li.reverse()
         print(li)
         string=str(li)
         print(string)
        abcdef
        ['f', 'e', 'd', 'c', 'b', 'a']
        ['f', 'e', 'd', 'c', 'b', 'a']
In [31]: #10. Write a program that takes a sentence as input. Split the sentence into a list of words. Then, iterate through the list o
         #the total number of vowels (a, e, i, o, u - case-insensitive) in all the words combined. Print the total vowel count.
         sentence="This is a python program"
         print(sentence)
         li=sentence.split()
         total vowel=0
         vowels="aeiouAEIOU"
         print(li)
         for s in li:
             for char in s:
                 if char in vowels:
                     total vowel+=1
         print("Total Vowels:",total vowel)
        This is a python program
        ['This', 'is', 'a', 'python', 'program']
        Total Vowels: 6
 In [ ]:
```

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