

list

December 19, 2022

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

```
[16]: l=[1,2,9,8,7]
total=0
for i in range (0,len(l)):
    total=total+l[i]
print("sum of all items",total)
```

sum of all items 27

2 Q.2 Write a Python program to get the smallest number from a list.

```
[1]: l1=[]
num=int(input("enter the number of element in a list:"))
for i in range(1,num+1):
    ele=int(input("enter the elements:"))
    l1.append(ele)
print("smallest element is :",min(l1))
```

enter the number of element in a list:6
enter the elements:2
enter the elements:4
enter the elements:3
enter the elements:6
enter the elements:7
enter the elements:8
smallest element is : 2

3 Q.3 Write a program to find unique elements of string specified by user and display unique elements in list

```
[11]: str=input("enter a string")
unique_list=[]
for i in str:
    if i not in unique_list:
```

```
        unique_list.append(i)
print(unique_list)
```

enter a string elements
['e', 'l', 'm', 'n', 't', 's']

4 Q.4 Write a Python program to print a specified list after removing the 0th, 4th and 5th elements.

Sample List : ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow'] Expected Output : ['Green', 'White', 'Black']

```
[29]: l1=["red",'green','white','black','pink','yellow']
      l1[1:4]
```

```
[29]: ['green', 'white', 'black']
```

5 Q.5 Write a program to display all the elements of odd position.

```
[52]: l1=[]
      l=input("enter the elements").split(",")
      for i in range (len(l)):
          if i%2==1:
              print(l[i])
```

enter the elements 2,3,4,5,6,7,8,9,
3
5
7
9

6 Q.6 Write a Python program to convert a string to a list.

```
[67]: s="python is very interesting subject"
      print(s.split(' '))
```

```
['python', 'is', 'very', 'interesting', 'subject']
```

7 Q.7 Write a Python program to insert an element at a specified position into a given list.

Original list: [1, 1, 2, 3, 4, 4, 5, 1] After inserting an element at kth position in the said list: [1, 1, 12, 2, 3, 4, 4, 5, 1]

```
[54]: l1=[1,1,2,3,4,4,5,1]
      l1.insert(2,78)
```

```
print("list:",l1)
```

list: [1, 1, 78, 2, 3, 4, 4, 5, 1]

8 Q.8 How to reverse the List using slice

```
[76]: l=[1,2,3,4,5,6,7,8,9]
      l[::-1]
```

```
[76]: [9, 8, 7, 6, 5, 4, 3, 2, 1]
```

9 Q.9 Program to convert a list into string

```
[4]: l= ['python','is','very','interesting','subject']
      for i in l:
          print(i,end=" ")
```

python is very interesting subject

10 Q.10 How to get the square of each list element between two range

```
[2]: start,end=input("enter the range:").split(" ")
      start=int(start)
      end=int(end)
      l=[]
      for i in range (start,end+1):
          l.append(i)
      print(l)
      print("square of each element:")
      x=[]
      for j in l:
          x.append(j*j)
      print(x)
```

enter the range:1 15

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15]

square of each element:

[1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225]

11 Q.11 How to Filter even values from a list using list comprehension

```
[3]: start,end=input("enter the range:").split(" ")
start=int(start)
end=int(end)
l=[]
for i in range (start,end+1):
    l.append(i)
print(l)
print("filter even values from the list:")
l1=[i for i in l if i%2==0]
print(l1)
```

enter the range:10 30

[10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30]

filter even values from the list:

[10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30]

12 Q.12 How to remove elements in a list before a specific index

```
[15]: l=[23,45,67,78,65,32,89,56,31]
print(l)
i=int(input("enter the index"))
x=l[i:]
print(x)
```

[23, 45, 67, 78, 65, 32, 89, 56, 31]

enter the index3

[78, 65, 32, 89, 56, 31]

[]: