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**PYTHON PROGRAMMING**

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PRACTICAL 4A

**1.] Create an empty list.**

**Input:** p=[ ] print(p)

**Output:**



**2.] Create a list num = [100, 300, 555, 715, 910, 10]**

**Input:** num=[100,300,555,715,910,10] print(num) **Output:**



**3.] Display the last element in the list**

**Input:**

num=[100,300,555,715,910,10] print(num[-1])

**Output:**



**4.] Add after the last element in ‘num’ list with another list [10,20,30,40]**

**Such that num = [100, 300, 555, 715, 910, 10,[10,20,30,40]]**

**Input:**

num=[100,300,555,715,910,10] num.append([10,20,30,40]) print(num) **Output:**



**5.] Add two elements 70 and 80 in num at the end.**

**Input:**

num=[100,300,555,715,910,10] num.append([10,20,30,40]) num.extend([70,80]) print(num) **Output:**



**6.] Delete 70 and 80 from the list**

**Input:**

num=[100,300,555,715,910,10] num.append([10,20,30,40]) num.extend([70,80]) num.pop( ) num.pop( ) print(num) **Output:**



**7.] Remove [10,20,30,40] from num**

**Input:**

num=[100,300,555,715,910,10] num.append([10,20,30,40]) num.extend([70,80]) num.pop( ) num.pop( ) num.pop(-1) print(num) **Output:**



**8.] Write the program to accept 5 names from the user and make a list of it.**

**For Loop:**

**Input:**

a=[ ] for i in range(5): n=input("enter name: ")

a.append(n) print(a)

**Output:**

 **While Loop:**

**Input:**

a=[ ] i=1 while i<6: n=input("enter name: ") i=i+1

a.append(n) print(a)

**Output:**



**9.] In the list created in Q8. Swap the first and last elements and disply the list before and after the swap Input:**

a=['neha','vishal','parth','anvi','vaishnavi'] print("before swap",a) a[0],a[-1]=a[-1],a[0] print("after swap",a)

**Output:**



**10. Create a list name = [‘Ajay’,’Het’,’Ami’,’Siya’,’Sam’]**

**Input:**

a=['Ajay','Het','Ami','Siya','Sam'] print(a)

**Output:**



**11.] Insert ‘Sahil’ at position 3 and print the updated list**

**Input:**

a=['Ajay','Het','Ami','Siya','Sam']

a.insert(3,'sahil') print(a)

**Output:**



**12.]From the list s=['zero','one','two','three','four','five'], extract ['two','three','four'] in a different list**.

**Input:**

s=['zero','one','two','three','four','five'] a=[] a=s[2:5] print(a)

**Output:**



**13.] Print the list s in the reverse order Slicing:**

**Input:**

s=['zero','one','two','three','four','five'] print(s[::-1])

**Output:**

 **Reverse:**

**Input:**

s=['zero','one','two','three','four','five']

s.reverse( ) print(s)

**Output:**



**14.]Write the program to accept an integer ‘n’ from the user and accept ‘n’ nos from user and display its product. Input:**

c=int(input('enter the number of elements:')) a=[ ] s=1

for i in range(c): p=int(input('enter no:'))

a.append(p) s=s\*p print('the list is:',a) print('the product is:',s)

**Output:**



**15.] Given a nested list n=[[[1, 2], [3, 44], 5], [6, 7,[8,9]]], write the code to print the element 44 at the output. Input:**

n=[[[1, 2], [3, 44], 5], [6, 7,[8,9]]] print(n[0][1][1])

**Output:**



**16.] Change the number 8 to 10 in list n Input:**

n=[[[1, 2], [3, 44], 5], [6, 7,[8,9]]] n[1][2][0]=10

print(n)

**Output:**



**17.] Given a list d = [6,4,98,23,56,11,5], write the code to print the element with highest value and the lowest value and also the sum of all numbers.**

**Input:**

d = [6,4,98,23,56,11,5] print(max(d)) print(min(d))

print(sum(d))

**Output:**



**18.] print the sorted list.**

**Input:**

d = [6,4,98,23,56,11,5] d.sort()

print(d)

**Output:**



**19.] In the list [6,7.8,4.09,11,45,32,89,12,4,8,56,8], count the no. of occurrences of 8 Input:**

r=[6,7.8,4.09,11,45,32,89,12,4,8,56,8] d=r.count(8) print(d)

**Output:**



**20.] In the list s=['zero','one','two','three',’one’,'four','five',’one] count the occurrences of ‘one’**

**Input:**

s=['zero','one','two','three','one','four','five','one'] d=s.count('one') print(d)

**Output:**

**21.] Display the list s in the sorted form.**

**Input:**

s=['zero','one','two','three','one','four','five','one'] s.sort() print(s)

**Output:**



**22.] Find the element having maximum value in s**

**Input:**

s=['zero','one','two','three','one','four','five','one'] print(min(s))

**Output:**

**23.] Find the element having minimum value in s Input:**

s=['zero','one','two','three','one','four','five','one'] print(max(s))

**Output:**

**24.] Display every second element of list s. Input:**

s=['zero','one','two','three','one','four','five','one'] d=s[ : :2] print(d)

**Output:**



**25.] Display every third element from the last to the first element of the list p=[6,7.8,4.09,11,45,32,89,12,4,8,56,8].**

**Input:**

p=[6,7.8,4.09,11,45,32,89,12,4,8,56,8] d=p[-1 ::-3] print(d)

**Output:**



**26.] Use list p of Q 25 and display the highest number amongst the second element and seventh element.**

**Input:**

p=[6,7.8,4.09,11,45,32,89,12,4,8,56,8] d=p[2],p[7] print(max(d))

**27.] Use list p of Q 25 and display the second largest number.**

**Input:**

p=[6,7.8,4.09,11,45,32,89,12,4,8,56,8] p.sort() print(p[-2])

**Output:**

**28.] Divide list p into two new list having sorted half elements of p. The output will be q=[4, 4.09…….8, 11] and r=[ 12, 32……. 89] Input:**

p=[6,7.8,4.09,11,45,32,89,12,4,8,56,8] p.sort() d=p[:6] r=p[6:12] print(d) print(r)

**29.] Accept a number from the user and check if it is available in the list p of Q25. If it exists display the index of the element in the list else display that it is not in the list p Input:**

**Output:**

**30.] Using list q create another list where each element is cube of every element of list q.**

**Input:**

**Output:**