**PYTHON ASSIGNMENT**

**1)Given two lists, l1 and l2, write a program to create a third list l3 by picking an odd-index element from the list l1 and even index elements from the list l2.**

l1 = [3, 6, 9, 12, 15, 18, 21]

l2 = [4, 8, 12, 16, 20, 24, 28]

Ans)

l1 = [3, 6, 9, 12, 15, 18, 21]

(print(l1[1:6:2]))

l2 = [4, 8, 12, 16, 20, 24, 28]

(print(l2[0::2]))

l3=l2.extend(l1)

Output)

[6, 12, 18]

[4, 12, 20, 28]

**2)Write a program to remove the item present at index 4 and add it to the 2nd position and at the end of the list.**

list1 = [54, 44, 27, 79, 91, 41]

Ans)

list1 = [54, 44, 27, 79, 91, 41]

list1.remove(79)

list1.insert(2,79)

list1.append(79)

print(list1)

Output)

[54, 44, 79, 27, 91, 41, 79]

**3.Write a Python program that accepts the user's first and last name and prints them in reverse order with a space between them.**

Ans)

x=input("enter first name:")

y=input("enter last name:")

print(y,x)

Output)

enter first name:ragamsetty

enter last name:rahul

rahul ragamsetty

**4)Write a Python program to sum all the items in a list.**

Ans)

sum = 0

a=[1,2,3,4]

for i in a:

sum = sum+i

print(sum)

Output)

10

**5)Write a Python program to multiply all the items in a list.**

Ans)

mul=1

b=[1,2,3,4,5]

for i in b:

mul=mul\*i

print(mul)

Output)

120

**6)Write a Python program to get the largest number from a list.**

Ans)

list =[100,211,32367,477,537]

list.sort(reverse=True)

print(list[0])

**#or**

**#using loops**

list =[100,211,327,477,537]

highest=list[0]

for i in list:

if i > highest:

highest=i

print(highest)

Output)

32367

537

**7)Write a Python program to find the second smallest number in a list.**

Ans)

list =[1010,7896,1299,5678]

secondhighest=list[1]

for i in list:

if i > secondhighest:

secondhighest=i

print(secondhighest)

Output)

7896

**8)Write a Python program to clone or copy a list.**

Ans)

a=[1,2,3,4,5]

x=a.copy()

print(x)

Output)

[1, 2, 3, 4, 5]

**9)Write a Python program to count the number of elements in a list**

Ans)

abc=[1,2,3,4]

print(len(abc))

Output)

4

**10)Write a Python program that prints all the numbers from 0 to 6 except 3 and 6.**

Ans)

a=[0,1,2,3,4,5,6]

for i in a:

if i==3 or i==6:

continue

print(i)

Output)

0

1

2

4

5

**11)Write a Python program to get the Fibonacci series between 0 and 50.**

Ans)

num=50

a=0

b=1

c=0

print(a)

print(b)

while c<=num:

c=a+b

if c<num:

print(c)

a=b

b=c

Output)

0

1

1

2

3

5

8

13

21

34