```
#string to list input conversion
x=[]
x[:]=input()
print(x)
     ['a', 'n', 'j', 'a', 'l', 'i']
y=[]
y[:]=input().split()
print(y)
     anjali rathod
     ['anjali', 'rathod']
x=[1,2,3]
y=[4,5,6]
x.extend(y)
print(x)
     [1, 2, 3, 4, 5, 6]
a=[1,2,3]
a.insert(0,'anjali')
print(a)
     ['anjali', 1, 2, 3]
a=[1,1,1,1,2,3,3,2,2]
a.count(1)
     4
a=[1,1,1,2,2,2,3,3,3,3,3]
key=1
a.count(key)
     3
a.remove(1)
#removes only 1 element
а
     [1, 1, 2, 2, 2, 3, 3, 3, 3]
```

```
a.pop(1)
#removes only 1 element
     1
а
     [1, 2, 2, 2, 3, 3, 3, 3]
a.pop()
#removes the last element
     3
а
     [1, 2, 2, 2, 3, 3, 3]
a=[1,4,3,2]
a.sort()
print(a)
#sorts the list
     [1, 2, 3, 4]
a.reverse()
#reverses the list
а
     [4, 3, 2, 1]
b=[1,4,2,3]
a=b.copy()
a.sort()
b
     [1, 4, 2, 3]
hex(id(a))
     '0x7fad824f73c0'
hex(id(b))
```

'0x7fad824f2730' а [1, 2, 3, 4] #checking if shallow copy works in 2D list conclusion is shallow copy doesnt work for 2D list # we use deep copy for 2D list and above a=[[1,2,3],[4,5,6]] from copy import deepcopy b=deepcopy(a) b[0][0]="anjali" b [['anjali', 2, 3], [4, 5, 6]] a=["a","e","i","o","u"] x=input() v=0 c=0 for i in x: if i in a: v=v+1else: c=c+1print("c",c) print("v",v) '''check this program''' anjali c 3 v 3 'check this program' #list comprehension a=[x for x in range(0,10) if x%2==0]

а

```
[0, 2, 4, 6, 8]
a=[ chr(i) for i in range(ord('a'),ord('z'))]
а
     ['a',
       'b',
       'c',
       'f',
       'g',
       'h',
      'i',
       'j',
       'k',
       '1',
       'm',
       'n',
       'o',
       'p',
       's',
       'W',
       'x',
       'y']
#TUPLES
a=(1,1.2,"an1")
а
     (1, 1.2, 'an1')
a=(50,)
а
     (50,)
```

type(a)

```
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         tuple
    a=(1,2,3,4)
   x=6
   x not in a
         True
   a=("anjali",)*10
    а
         ('anjali',
           'anjali',
          'anjali',
          'anjali',
          'anjali',
          'anjali',
          'anjali',
          'anjali',
          'anjali',
          'anjali')
    for i in a:
      print(i)
         anjali
         anjali
         anjali
         anjali
         anjali
         anjali
         anjali
         anjali
         anjali
         anjali
    a=[1,2]
    x=tuple(a)
    Х
         (1, 2)
   z=list(x)
    z
```

```
[1, 2]
a=(1,2,3,4,5,6)
a[::-1]
     (6, 5, 4, 3, 2, 1)
a[-1]
     6
len(a)
     6
max(a)
     6
min(a)
     1
a.count(1)
     1
#generate list with only consonants using list comprehension
vowels=("a","e","i","o","u")
a=[chr(i) for i in range(ord("a"),ord("z")+1) if chr(i) not in vowels]
print(a)
     ['b', 'c', 'd', 'f', 'g', 'h', 'j', 'k', 'l', 'm', 'n', 'p', 'q', 'r', 's', 't', 'v', 'v
a=str(input())
sum=0
for i in a:
  sum+=ord(i)
  print('number=',ord(i))
```

print('sum=',sum)

anjali
number= 97
number= 110
number= 106
number= 97
number= 108
number= 105
sum= 623

ord('a')

97

×