**23/6**

**1)program to find case of letters and make list and count?**

str=input("enter sentence here:--")

upperList=[]

lowerList=[]

vowels="aeiouAEIOU"

upperListvowelsCount=0

lowerListvowelsCount=0

for char in str:

if char.isupper():

upperList.append(char)

if char in vowels:

upperListvowelsCount+=1

else:

lowerList.append(char)

if char in vowels:

lowerListvowelsCount+=1

print(upperList,"upperlist")

print(lowerList,"lowerlist")

print(upperListvowelsCount,"upperListvowelsCount")

print(lowerListvowelsCount,"lowerListvowelsCoun")

**o/p**:enter sentence here:--Hello ALL Of You

['H', 'A', 'L', 'L', 'O', 'Y'] upperlist

['e', 'l', 'l', 'o', ' ', ' ', 'f', ' ', 'o', 'u'] lowerlist

2 upperListvowelsCount

4 lowerListvowelsCount

**2)program for it should be alphabet,uppercase,vowel,append**

str=input("enter str here:--")

result=[]

vowels="aeiouAEIOU"

sumDigits=0

for char in str:

if char.isalpha():

if char.isupper():

if char in vowels:

result.append(char)

if char.isdigit():

sumDigits+=int(char)

print(result)

print(sumDigits)

**o/p:** enter str here:--I am Earning more than 50500

['I', 'E']

10

**3)p for special syumbols**

str=input("enter:--")

res=[]

for char in str:

if not char.isalnum() and not char.isspace():

res.append(char)

print(res)

**o/p:**

enter:--142#$%#ghd

['#', '$', '%', '#']

**4)**

str=input("enter:")

a=str.index("a")

b=str.rindex("a")

print(a)

print(b)

**O/P:**

enter:banana

1

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