

```

In [ ]: # Q2)l1=['Hyd','Mumbai','Chennai','blr']
# ans=['Mumbai','Chennai']
# we want lements which are len of element >4

# Q3)l1=['Hyd','Mum#bai','Chen#nai','blr']
# ans=['Mum#bai','Chen#nai']
# we want lements which are having '#'

# Q4)l1=['hyd','mumbai','chennai','blr']
# ans= ['Hyd','Mumbai','Chennai','Blr']
# we want lements which are len of element >4

# Q5)l1=['Hyd','Mumbai','chennai','blr']
# ans= ['Hyd','Mumbai']
# we want lements which are having first letter capital

# Q6)l1=['Hyd','Mum#bai','Chen#nai','blr']
# ans_#=['Mum#bai','Chen#nai']
# ans_without_#=['Hyd','blr']
# we want lements which are having '#'

# Q7) ask the user get 5 numbers randomly
# even_list and odd_list
# even numbers should append at even_list
# odd number should append at odd_list

# Q8) str='hello hai how are you'
# Maximum len of word using split and max method
# sum of all the indexes of the maximum len of word using append

# Q9) str1='virat.kohli@rcb.com, Rohit.sharma@mi.co, KL.Rahul@Lucknow.com'
# Firstname=[] second name=[] cname=[]
# append first name should be in first name list
# second name shoul be in second name list
# thirs name will be in thirs name list

# 10 )
# You have two lists
# qns=['What is capital of India',
#      'Who is PM of india',
#      'Who is ICT ODI captian']
# ans = ['Delhi','Modi','Rohit']

# For i in qns:
# print(i)
# ans= delhi
# index should match
# delhi modi
# marks= marks+1
# print the total marks

```

```
In [130]: # Q2)l1=['Hyd','Mumbai','Chennai','blr']
# ans=['Mumbai','Chennai']
# we want elements which are len of element >4
```

```
In [131]: l1=['Hyd','Mumbai','Chennai','blr']
l2=[]
for i in l1:
    if len(i)>4:
        l2.append(i)
print(l2)
```

```
['Mumbai', 'Chennai']
```

```
In [ ]: # Q3)l1=['Hyd','Mum#bai','Chen#nai','blr']
# ans=['Mum#bai','Chen#nai']
# we want elements which are having '#'
```

```
In [16]: l1=['Hyd','Mum#bai','Chen#nai','blr']
l2=[]
for i in l1:
    if '#' in i:
        l2.append(i)
print(l2)
```

```
['Mum#bai', 'Chen#nai']
```

```
In [12]: # Q4)l1=['hyd','mumbai','chennai','blr']
# ans= ['Hyd','Mumbai','Chennai','Blr']
# we want elements which are len of element >4
```

```
In [4]: l1=['hyd','mumbai','chennai','blr']
l3=[]
l2=[]
for i in l1:
    t=i.title()
    l3.append(t)
print(l3)
for i in l3:
    if len(i)>4:
        l2.append(i)
print(l2)
```

```
['Hyd', 'Mumbai', 'Chennai', 'Blr']
['Mumbai', 'Chennai']
```

```
In [60]: # Q5)l1=['Hyd','Mumbai','chennai','blr']
# ans= ['Hyd','Mumbai']
# we want elements which are having first letter capital
```

```
In [28]: #method-1:
l1=['Hyd','Mumbai','chennai','blr']
l2=[]
for i in l1:
    a=i.title()
    if i in a:
```

```
l2.append(i)
print(l2)
```

```
['Hyd', 'Mumbai']
```

```
In [53]: #method-2:
l1=['Hyd','Mumbai','chennai','blr']
l2=[]
for i in l1:
    if i[0].isupper():
        l2.append(i)
print(l2)
```

```
['Hyd', 'Mumbai']
```

```
In [ ]: # Q6)l1=['Hyd','Mum#bai','Chen#nai','blr']
# ans_#=['Mum#bai','Chen#nai']
# ans_without_#=['Hyd','blr']
# we want lements which are having '#'
```

```
In [37]: l1=['Hyd','Mum#bai','Chen#nai','blr']
l2=[]
l3=[]
for i in l1:
    if '#' in i:
        l2.append(i)
    if '#' not in i:
        l3.append(i)
print(f'answer with # {l2}')
print(f'answer without # {l3}')
```

```
answer with # ['Mum#bai', 'Chen#nai']
answer without # ['Hyd', 'blr']
```

```
In [ ]: # Q7) ask the user get 5 numbers randomly
# even_list and odd_list
# even numbers should append at even_list
# odd number should append at odd_list
```

```
In [132... import random
even_list=[]
odd_list=[]
for i in range(5):
    num=random.randint(1,100)
    if num%2==0:
        even_list.append(num)
    else:
        odd_list.append(num)
print(f'even list:{even_list}')
print(f'odd list :{odd_list}')
```

```
even list:[86, 32, 40]
odd list :[65, 71]
```

```
In [ ]: # Q8) str='hello hai how are you'
# Maximum len of word using split and max method
# sum of all the indexes of the maximum len of word using append
```

```
In [30]: str='hello hai how are you'
words=str.split()
sum=0
maxx=max(words,key=len)
print(f'maximum len word:{maxx}')
for i in range(len(maxx)):
    sum=sum+i
print(f'sum of all indexex of maximum len of word:{sum}')
```

maximum len word:hello
sum of all indexex of maximum len of word:10

```
In [ ]: # Q9) str1='virat.kohli@rcb.com, Rohit.sharma@mi.co, KL.Rahul@Lucknow.com'
# Firstname=[] second name=[] cname=[]
# append first name should be in first name list
# second name shoul be in second name list
# third name will be in thirs name list
```

```
In [96]: str1 = 'virat.kohli@rcb.com, Rohit.sharma@mi.co, KL.Rahul@lucknow.com'
firstname = []
secondname = []
thirdname = []
words = str1.split(',')
for word in words:
    i1 = word.index('.')
    i2 = word.index('@')
    fname = word[:i1]
    sname = word[i1+1:i2]
    tname = word[i2+1:word.index('.', i2)]
    firstname.append(fname)
    secondname.append(sname)
    thirdname.append(tname)
print("First names:", firstname)
print("Second names:", secondname)
print("Company names:", thirdname)
```

First names: ['virat', 'Rohit', 'KL']
Second names: ['kohli', 'sharma', 'Rahul']
Company names: ['rcb', 'mi', 'lucknow']

```
In [ ]: # 10 )
# You have two lists
# qns=['What is capital of India',
#      'Who is PM of india',
#      'Who is ICT ODI captian']
# ans = ['Delhi', 'Modi', 'Rohit']

# For i in qns:
#     print(i)
#     ans= delhi
#     index should match
#     delhi modi
```

```
#      marks= marks+1  
# print the total marks
```

In [129]...

```
marks=0  
qns=['What is capital of India',  
     'Who is PM of india',  
     'Who is ICT ODI captian']  
ans = ['Delhi','Modi','Rohit']  
for i in range(len(qns)):  
    print(qns[i])  
    anss=input("enter answer:")  
    if anss==ans[i]:  
        marks=marks+1  
print(f'total marks are : {marks}')
```

What is capital of India
Who is PM of india
Who is ICT ODI captian
total marks are : 1

In [21]:

```
s='hai hai'  
for i in range(len(s)):  
    print(i)
```

0
1
2
3
4
5
6

In []: