

PYTHON SLOT 4

1.write a python program which accept the user's name and print them in reverse order with a space between them.

Program

```
name=input("input name: ")
l=name.split()
l.reverse()
("reversed name:",end=' ')
for i in l:
print(i,end=' ')
```

OUTPUT:

```
input name: Akhila ar
reversed name: ar Akhila
```

2.write a python program to concatenate all elements in a list into a string and return it.

Program

```
lis=input("enter a list(space separated):")
s1=lis.split()
print(s1)
result=' '
for i in s1:
    result+=str(i)
print("concatenated elements in the list:",result)
```

OUTPUT:

```
enter a list(space separated):Akhila ar
[ 'Akhila', 'ar' ]
concatenated elements in the list: Akhilaar
```

3.write a python program to count the number of characters (character frequency)in a string.

Program

```
dict={}

str1=input("Enter a string:")

for n in str1:
    if n in dict:
        dict[n]+=1
    else:
        dict[n]=1

print("character frequency")

for i,j in dict.items():
    print(i,j)
```

OUTPUT:

Enter a string:AKHILA

character frequency

A 2

K 1

H 1

I 1

L 1

4. Write a Python function that takes a list of words and returns the longest one.

Program

```
str=input("Enter a sequence: ")

list=str.split(' ')

word_len=[]
```

```

for i in list:
    word_len.append((len(i),i))
word_len.sort()
print(word_len)

print("Number of characters and longest word",word_len[-1])

```

OUTPUT:

```

Enter a sequence: I am Akhila
[ (1, 'I'), (2,'am'), (6,'Akhila' ) ]
Number of characters and longest word (6, 'Akhila' )

```

5. Write a Python program to remove the characters which have odd index values of a given string.

Program

```

strr1=input("Enter a String: ")
result=" "
for i in range(0,len(strr1),2):
    result= result + strr1[i]
print("String after removing characters in odd positions:",result)

```

OUTPUT:

```

Enter a String: Akhila
String after removing character in odd positions: Ahl

```

6. Write a Python program to count the occurrences of each word in a given sentence

Program

```

word=input("Enter a sequence: ")
list=word.split()
count={}
for i in list:
    if i in count:

```

```

        count[i] += 1
    else:
        count[i] = 1
for i,j in count.items():
    print(i,j)

```

OUTPUT:

Enter a sequence: hello hy ria hello
Hello 2
Hy 1
Ria 1

7. Write a Python program to remove duplicates from a list.

Program

```

lis1=input("Enter a list(space separated): ")
lis2=list(lis1.split())
uni_items=[]
for x in lis2:
    if x not in uni_items:
        uni_items.append(x)
print("After removing duplicates: ",uni_items)

```

OUTPUT:

Enter a list(space separated): python python programming
After removing duplicates: ['python', 'programming']

8. Write a Python program to find the list of words that are longer than n from a given list of words.

Program

```

str=input("Enter a list of words(space separated): ")
n=int(input("Enter a length: "))
txt=str.split()
word_len=[]

```

```
for x in txt:
if len(x) > n:
word_len.append(x)
print("Words with length greater than ", n,"=",word_len)
```

OUTPUT:

Enter a list of words(space separated): anirudh kavya kallu manu

Enter length: 6

Words with length greater than 6 =['anirudh']

9. Write a Python program to print a specified list after removing the 0th, 2nd, 4th and 5th elements.

Program

```
list1=input("Enter a list(space separated): ")
list2=list(list1.split())
for i,x in enumerate(list2):
if i not in(0,2,4,5):
print(x)
```

OUTPUT:

Enter a list(space separated): 12 34 45 6 1 4 6 9 20

34

6

6

9

20

10. Write a Python program to print the numbers of a specified list after removing even numbers from it.

Program

```
no1=input("Enter an integer list(space seperated): ")
```

```
no2=list(map(int,no1.split()))
print(no2)

no=[]

for x in no2:
    if x%2!=0:
        no.append(x)
print("List after removing even numbers",end=' ')

print(no)
```

OUTPUT:

Enter an integer list(space seperated): 1 2 3 4 5 6 7 8

List after removing even numbers [1, 3,5, 7,]

11. Write a Python program that accept a word from the user and reverse it.

Program

```
word=input("Enter a word: ")
str=''

for i in range(len(word)-1,-1,-1):
    print(word[i],end= ' ')
```

OUTPUT:

Enter a word:python

nohtyp