Darshan UNIVERSITY
योग: कर्मसु कौशलम्

Python Programming - 2101CS405

Lab - 4

In [2]:
```
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```

String

01) WAP to check given string is palindrome or not.

In [4]:
```python
a = input("Enter a string : ")
rev = a[::-1]

if rev == a:
    print("String is palindrome")
else:
    print("String is not palindrome")
```

String is palindrome

02) WAP to reverse the words in given string.

In [4]:
```python
a = input("Enter a String : ")
print("Reverse : ",a[::-1])
```

Reverse : kingay

03) WAP to remove ith character from given string

In [18]:
```python
a = input("Enter a String : ")
i = int(input("Enter posotion : "))
if i>0 and i<len(a):
    print(a[:i-1]+a[i:])
else:
    print("Please Enter appropriate position")
```

yagnk

04) WAP to find length of String without using len function.

```
In [21]: a = input("Enter a String : ")
         c = 0
         for i in a:
             c += 1
         print("Length is ",c)
```

Length is 6

05) WAP to print even length word in string.

```
In [27]: a = input("Enter a String : ")
         list = a.split()
         even = [i for i in list if len(i) % 2 == 0]
         print("Even length words")
         for e in even:
             print(e)
```

Even length words
my
name
is
yagnik

06) WAP to count numbers of vowels in given string.

```
In [32]: a = input("Enter a String : ")
         vc = 0

         for i in a.lower():
             if(i == 'a' or i == 'e' or i == 'i' or i == 'o' or i == 'u'):
                 vc += 1
         print("No. of vowel : ",vc)
```

No. of vowel : 2

07) WAP to convert given array to string.

```
In [6]: a = ["my","name","is","yagnik"]
        str = " ".join(a)
        print(str)
```

my name is yagnik

01) WAP to find out duplicate characters in given string.

```
In [44]: a = input("Enter a String : ")
         count = {}

         for i in a:
```

```
        count[i] = count.get(i, 0) + 1
    print("Duplicate characters")
    for char,c in count.items():
        if c >=2:
            print(char)
```

```
Duplicate characters
a
```

02) WAP to capitalize the first and last character of each word in a string.

In [8]:
```
a = input("Enter a String : ")
w = a.split()
newwords = []
# print("yagnik"[1:-1])
for i in w:
    if len(i) > 1:
        new_word = i[0].upper() + i[1:-1] + i[-1].upper()
    else:
        new_word = i.upper()
    newwords.append(new_word)
print(" ".join(newwords))
```

```
I I I AM AM
```

03) WAP to find Maximum frequency character in String.

In [126...
```
a = input("Enter a String : ")
count = {}

for i in a:
    count[i] = count.get(i,0)+1

miximum = count.get(a[0])

for char,cont in count.items():
    if cont > maximum:
        maximum = cont

print("Maximum frequency character")
for char,cont in count.items():
    if cont == maximum:
        print(char)

print(maximum," frequency")
```

```
Maximum frequency character
a
2  frequency
```

04) WAP to find Minimum frequency character in String.

```python
a = input("Enter a String : ")
count = {}

for i in a:
    count[i] = count.get(i,0)+1

minimum = count.get(a[0])

for char,cont in count.items():
    if cont < minimum:
        minimum = cont

print("Maximum frequency character")
for char,cont in count.items():
    if cont == minimum:
        print(char)

print(minimum," frequency")
```

```
Maximum frequency character
v
2   frequency
```

05) WAP to check if a given string is binary string or not

```python
a = input("Enter a String : ")
flag = True

for i in a:
    if(i != '0' or i != '1'):
        flag = False
        break

if(flag):
    print("String is binary")
else:
    print("String is not binary")
```

```
String is not binary
```