



[\(https://www.darshan.ac.in/\)](https://www.darshan.ac.in/)

# Python Programming - 2101CS405

## Lab - 4

**Name:Parmar Himanshu**

**Roll No.:341**

**Enrollment No.:22010101132**

```
In [8]: #String Method
str = "Darshan"
print("String Length:",len(str))
print("A count:",str.count('a'))
print("Title:",str.title())
print("Lower:",str.lower())
print("Upper:",str.upper())
print("Check Title:",str.istitle())
print("Check Upper:",str.isupper())
print("Check Lower:",str.islower())
print("Check Digit:",str.isdigit())
print("Check Number:",str.isnumeric())
print("Check Decimal:",str.isdecimal())
print("Index of a:",str.index('a'))
print("Replace Darhsan To DU:",str.replace('Darshan', 'DU'))

str1 = "    Hello    "
print("Remove Extra Space:",str1.strip())
print("Remove left Space:",str1.lstrip())
print("Remove right Space:",str1.rstrip())
```

```
String Length: 7
A count: 2
Title: Darshan
Lower: darshan
Upper: DARSHAN
Check Title: True
Check Upper: False
Check Lower: False
Check Digit: False
Check Number: False
Check Decimal: False
Index of a: 1
Replace Darhsan To DU: DU
Remove Extra Space: Hello
Remove left Space: Hello
Remove right Space:      Hello
```

## String

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

```
In [14]: str = input("Enter String:")
rev = str[::-1]
if(rev==str):
    print("String Are Palindrome")
else:
    print("String Are Not Palindrome")
```

Enter String:mam  
String Are Palindrome

### 02) WAP to reverse the words in given string.

```
In [15]: str = input("Enter String:")
rev = str[::-1]
print("Reverse:", rev)
```

Enter String:him anshu  
Reverse: uhsna mih

### 03) WAP to remove ith character from given string

```
In [16]: str = input("Enter String:")
i = int(input("Enter Number That You Want To Remove:"))
ans = str[0:i:] + str[i+1::]
print(ans)
```

Enter String:Darshan  
Enter Number That You Want To Remove:2  
Dashan

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

```
In [17]: str = input("Enter String:")
ans = 0
for i in str:
    ans+=1
print(ans)
```

Enter String:Darshan  
7

### 05) WAP to print even length word in string.

```
In [21]: str = input("Enter String:")
s=str.split(" ")
for i in s:
    if(len(i)%2==0):
        print("Even Word:",i)
```

Enter String:heyu i hima  
Even Word: heyu  
Even Word: hima

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

```
In [23]: str = input("Enter String:")
ans = 0
str = str.lower()
for i in str:
    if(i=='i' or i=='a' or i=='e' or i=='u' or i=='o'):
        ans+=1
print(ans)
```

Enter String:Darshan  
2

### 07) WAP to convert given array to string.

```
In [28]: arr = ["Hello", "My", "Name", "is", "Himanshu"]
str = ""
for i in arr:
    str+=i+" "
print(str)
# ans = " ".join(arr)
```

Hello My Name is Himanshu

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

```
In [44]: str = input("Enter String:")
ls = []
for i in str:
    if ((str.count(i))>1 and i not in ls):
        ls.append(i)
else:
    print(ls)
```

Enter String:Darshandarshan  
['a', 'r', 's', 'h', 'n']

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

```
In [43]: str = input("Enter String:")
ans = ""
finans = ""
s = str.split(" ")
for i in s:
    ans = i[0:1:].upper() + i[1:len(i)-1:] + i[len(i)-1:].upper()
    finans += ans + " "
print(finans)
```

Enter String:hey world  
HeY World

## 03) WAP to find Maximum frequency character in String.

```
In [ ]: str=input("Enter String:")
ch={}
for ch1 in str:
    if ch1 in ch:
        ch[ch1] +=1
    else:
        ch[ch1]=1
mc = max (ch,key=ch.get)
print(f"{ch[mc]}")
```

## 04) WAP to find Minimum frequency character in String.

```
In [1]: str=input("Enter String:")
ch={}
for ch1 in str:
    if ch1 in ch:
        ch[ch1] +=1
    else:
        ch[ch1]=1
mc = min (ch,key=ch.get)
print(f"{ch[mc]}")
```

Enter String:hello hi himanshu  
1

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

```
In [2]: str = input("Enter String:")
bin = '01'
count = 0
for i in str:
    if i not in bin:
        count+=1
        break
    else:
        pass
if count>0:
    print("String not Binary String")
else:
    print("Binary String")
```

Enter String:21344125  
String not Binary String

In [ ]: