(https://www.darshan.ac.in/)

Python Programming - 2101CS405

Lab - 4

Some String Methods

In [4]:
```
s = "darshan"
c = s.count('a')
print(len(s))                           # 7
print(c)                                # 2
print(s.title())                        # Darshan
print(s.lower())                        # darshan
print(s.upper())                        # DARSHAN
print(s.isupper())                      # False
print(s.islower())                      # True
print(s.istitle())                      # False
```

```
7
2
Darshan
darshan
DARSHAN
False
True
False
```

In [3]:
```
x = "        .    Hello    .        "
print(x.strip())                        # .    Hello    .
print(x.lstrip())                       # .    Hello    .
print(x.rstrip())                       #         .    Hello    .
print(x.find('.'))                      # 8
print(x.rfind('.'))                     # 22
print(x.find('8'))                      # -1
# print(x.index('8'))                   # generates exception if char not found
print(x.replace('Hello', 'Good Bye'))   #         .    Good Bye    .
```

```
.    Hello    .
.    Hello    .
        .    Hello    .
8
22
-1
        .    Good Bye    .
```

In [2]:
```
print('abc'.isalpha())                  # True
print('a12bc'.isalpha())                # False
print('a bc'.isalpha())                 # False
print('abc'.isnumeric())                # False
print('123'.isnumeric())                # True
print('12.3'.isnumeric())               # False
print('a2bc'.isalnum())                 # True
print('a2bc'.isdigit())                 # False
print('2.8'.isdigit())                  # False
```

```
True
False
False
False
True
False
True
False
False
```

String

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

In [ ]:
```

```

```
Enter a string: 12321
12321 is a palindrome
```

02) WAP to reverse the words in given string.

In [1]:
```

```

```
Enter a string: hello world bye
Original string: hello world bye
Reversed string: bye world hello
```

03) WAP to remove ith character from given string

In [2]:
```

```

```
Enter a string: hello world
Enter the index of character to be removed: 2
String after removing 2 th character: helo world
```

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

In [3]:
```

```

```
Enter a string : hello world bye
Length of the string is :  15
```

05) WAP to print even length word in string.

In [7]:
```
Enter a string: a bb ccc dddd eeeee ffffff
bb
dddd
ffffff
```

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

In [10]:
```
Enter a string: hello world bye
The number of vowels in the string is: 4
```

07) WAP to convert given array to string.

In [15]:
```
Enter array elements in CSV format: 10,20,30,40
The array converted to string is :  [10, 20, 30, 40]
```

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

In [18]:
```
Enter a string:helloo world byee

o
e
l
```

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

In [19]:
```
Enter a string: helloo world byee
HellOO WorlD ByeE
```

03) WAP to find Maximum frequency character in String.

In [21]:
```
Enter a string: helloo world byee
e l o
```

04) WAP to find Minimum frequency character in String.

In [22]:

```
Enter a string: hello world byee
Minimum frequency characters in the string are: ['h', 'w', 'r', 'd', 'b', 'y']
```

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

In [23]:

```
Enter a string:101010111
It is a binary string
```