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Python Programming - 2101CS405

Lab - 4

String

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

In [2]:

```
str1 = input("Enter String : ")
str2 = str1[::-1]
if str1 == str2:
    print("Palindrome")
else:
    print("Not Palindrome")
```

```
Enter String : asa
Palindrome
```

02) WAP to reverse the words in given string.

In [3]:

```
str1 = input("Enter String : ")
str2 = str1[::-1]
print(str2)
```

```
Enter String : kevin
nivek
```

03) WAP to remove ith character from given string

In [4]:

```
str1 = input("Enter String : ")
index = int(input("Enter Index : "))
str2 = str1[:index]+str1[index+1:]
print(str2)
```

```
Enter String : Kevin
Enter Index : 2
Kein
```

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

In [5]:

```
str1 = input("Enter String : ")
count = 0
for i in str1:
    count = count + 1
print(count)
```

```
Enter String : Kevin
5
```

05) WAP to print even length word in string.

In [6]:

```
str1 = input("Enter String : ")[1::2]
print(str1)
```

```
Enter String : Kevin
ei
```

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

In [7]:

```
str1 = input("Enter String : ")
str1 = str1.lower()
vowel = 0
for i in str1:
    if i == "a" or i == "e" or i == "i" or i == "o" or i == "u":
        vowel = vowel + 1
print(vowel)
```

```
Enter String : Kevin
2
```

07) WAP to convert given array to string.

In [9]:

```
arr = []
str1 = ""
length = int(input("Enter Length Of Charcter : "))
for i in range(length):
    character = input("Enter Character : ")
    arr.append(character)
str1 = str1.join(arr)
print(str1)
```

```
Enter Length Of Charcter : 4
Enter Character : Kevin
Enter Character : Ramoliya
Enter Character : Studing at
Enter Character : Darshan University
KevinRamoliyaStuding atDarshan University
```

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

In [10]:

```
list = []
str1 = input("Enter String: ")
for i in str1:
    if str1.count(i) > 1:
        list.append(i)
element = set(list)
print(element)
```

```
Enter String: Kevin Ramoliya
{'a', 'i'}
```

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

In [11]:

```
str1 = input("Enter String : ")
str1 = str1[0].upper()+str1[1:len(str1)-1]+str1[-1].upper()
print(str1)
```

```
Enter String : Kevin
KeviN
```

03) WAP to find Maximum frequency character in String.

In [12]:

```
str1 = input("Enter String : ")
frequency = {}
for i in str1:
    if i in frequency:
        frequency[i] = frequency[i] + 1
    else:
        frequency[i] = 1
result = max(frequency, key=frequency.get)
print(result)
```

```
Enter String : Kevin
K
```

04) WAP to find Minimum frequency character in String.

In [13]:

```
str1 = input("Enter String : ")
frequency = {}
for i in str1:
    if i in frequency:
        frequency[i] = frequency[i] + 1
    else:
        frequency[i] = 1
result = min(frequency, key=frequency.get)
print(result)
```

```
Enter String : Kevin
K
```

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

In [14]:

```
str1 = input("Enter String : ")
if str1.count("0")+str1.count("1") == len(str1):
    print("Binary")
else:
    print("Not Binary")
```

```
Enter String : Kevin
Not Binary
```