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Python Programming - 2101CS405

Lab - 4

String

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

In [3]:
```
x= input("ENTER ANY STRING:")
b=x[::-1]
if x == b:
    print("YES STRING IS PALINDROME")
else:
    print("STRING IS NOT PALINDROME")
```

```
YES STRING IS PALINDROME
```

02) WAP to reverse the words in given string.

In [8]:
```
x=input("ENTER ANY STRING:");
a=x.split()
b=a[::-1]
print(' '.join(b))
```

```
codespeedy is the best
```

03) WAP to remove ith character from given string

In [18]:
```
x=input("ENTER ANY STRING:");
y=input("ENTER ITH POSITION REMOVE:");
z=int(y)
new_str =x[:z]+x[z+1:]
print("REMOVE 3TH POSITION CHARACTOR FROM GIVEN STRING::(new string)== {}".format(new_str));
```

```
REMOVE 3TH POSITION CHARACTOR FROM GIVEN STRING::(new string)== kihan
```

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

In [17]:
```
x=input("ENTER ANY STRING:");
count=0;
for i in x:
    count+=1;
print("LENGTH OF STRING ::{} ".format(count));
```

```
LENGTH OF STRING ::6
```

05) WAP to print even length word in string.

In [21]:
```
x=input("ENTER ANY STRING:");
words=x.split()
for i in words:
    if len(i)%2==0:
        print(i);
```

```
['kishan', 'patel']
['kishan', 'patel']
```

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

In [3]:
```
x=input("ENTER ANY STRING:");
vowels=0
for i in x:
    if(i=='a' or i=='e' or i=='i' or i=='o' or i=='u' or i=='A' or i=='E' or i=='I' or i=='O' or i=='U'):
        vowels=vowels+1
print("NUMBER OF VOWELS ARE:{}".format(vowels));
```

```
ENTER ANY STRING:keshvi
NUMBER OF VOWELS ARE:2
```

07) WAP to convert given array to string.

In [7]:
```
s=["I","want","4","apples","and","18","bananas"]
listToStr=' '.join(s);
print(listToStr)
```

```
I want 4 apples and 18 bananas
```

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

In [11]:
```
st=input("ENTER ANY STRING:");
print("ALL THE DUPLICATE CHARACTERS IN GIVEN STRING:");
for s in range(0,len(st)):
    count=1;
    for t in range(s+1,len(st)):
         if(st[s]==st[t] and st[s]!=' '):
                count=count+1;
    if(count>1 and st[s]!='0'):
        print(st[s]," - ",count);
```

```
ENTER ANY STRING:welcome to python.
ALL THE DUPLICATE CHARACTERS IN GIVEN STRING:
e  -  2
o  -  3
t  -  2
o  -  2
```

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

In [30]:
```
x=input("ENTER ANY STRING:");
result=x[0].upper()+x[1:-1]+x[-1].upper();
print("AFTER CAPITALIZING FRIST AND LAST CHARACTOR :{}".format(result));
```

```
ENTER ANY STRING:python
AFTER CAPITALIZING FRIST AND LAST CHARACTOR :PythoN
```

03) WAP to find Maximum frequency character in String.

In [31]:
```
x=input("ENTER ANY STRING:");
char_freq={}
for i in x:
    if i in char_freq:
        char_freq[i]=char_freq[i]+1;
    else:
        char_freq[i]=1;
res=max(char_freq,key=char_freq.get)
print("MAXIMUM FREQUENCY CARACTOR IN STRING:{}".format(res));
```

```
ENTER ANY STRING:greeks for greeks
MAXIMUM FREQUENCY CARACTOR IN STRING:e
```

04) WAP to find Minimum frequency character in String.

In [32]:
```
x=input("ENTER ANY STRING:");
char_freq={}
for i in x:
    if i in char_freq:
        char_freq[i]=char_freq[i]+1;
    else:
        char_freq[i]=1;
res=min(char_freq,key=char_freq.get)
print("MINIMUM FREQUENCY CARACTOR IN STRING:{}".format(res));
```

```
ENTER ANY STRING:greeks for greeks
MINIMUM FREQUENCY CARACTOR IN STRING:f
```

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

In [46]:
```
x=input("ENTER ANY BINARY STRING:");
if(x.count('0')+x.count('1')==len(x)):
    print(" X : IS  A BINARY STRING")
else:
    print(" X : IS NOT A BINARY STRING")
```

```
ENTER ANY BINARY STRING:kjds452dskj
 X : IS NOT A BINARY STRING
```