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Python Programming - 2101CS405

Lab - 4

Name : Gohel Krish

RollNo : 108

EnrollmentNo : 22010101060

Date : 3/1/24

String

In [39]:
```
x = "Good Morning Everyone"
y = "Good\tMorning\tEveryone"
z = "I have {an:.2f} rupees."

print("upper : ",x.upper())
print("capitalize : ", x.capitalize())
print("casefold : ",x.casefold())
print("center : ", x.center(20))
print("count : ", x.count('o'))
print("encode : ", x.encode())
print("endswith : ",x.endswith("e"))
print("expandtabs :", y.expandtabs(10))
print("find : ",x.find('E'))
print("formate : ",z.format(an = 4))
print("isascii : ",x.isascii())
print("index :",x.index("M"))
```

```
upper :  GOOD MORNING EVERYONE
capitalize :  Good morning everyone
casefold :  good morning everyone
center :  Good Morning Everyone
count :  4
encode :  b'Good Morning Everyone'
endswith :  True
expandtabs : Good      Morning   Everyone
find :  13
formate :  I have 4.00 rupees.
isascii :  True
index : 5
```

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

In [45]:
```
a = input('a:')
b = a[::-1]

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

```
a:aba
given String is palindrome
```

02) WAP to reverse the words in given string.

In [55]:
```
a = input('a:')

[print(i,end=" ") for i in a.split(" ")[::-1]]
print()
```

```
a:good morning
morning good
```

03) WAP to remove ith character from given string

In [60]:
```
a = "krish"

i = int(input())

print(a[0:i:]+a[i+1::])
```

```
1
kish
```

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

In [62]:
```
a = "krish"
count = 0
for i in a:
    count = count + 1

print(count)
```

```
5
```

05) WAP to print even length word in string.

In [64]:
```
l = ["krish","rutvik","soham"]

for i in l:
    if(len(i)%2 == 0):
        print(i)
```

```
rutvik
```

In [66]:
```
l = input()
a = l.split(" ")
for i in a:
    if(len(i)%2 == 0):
        print(i)
```

```
good morning
good
```

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

In [69]:
```
a = input()
count = 0

for i in a:
    if(i.lower() in 'aeiou'):
        count = count + 1

print(count)
```

```
krish
1
```

07) WAP to convert given array to string.

In [72]:
```
l = ["krish","gohel"]
print(" ".join(l))
```

```
krish gohel
```

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

In [76]:
```
a = input("a:")
b= []
for i in a:
    if a.count(i)>1 and (i not in b):
        b.append(i)
        print(i)
```

```
a:krishsh
s
h
```

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

In [3]:
```
s = input()

a=[]
for i in s.split(' '):
    w=i[0].upper()+i[1:-1]+i[-1].upper()
    a.append(w)

print(a)
```

```
krish gohel
['KrisH', 'GoheL']
```

03) WAP to find Maximum frequency character in String.

In [4]:
```
s = input("Enter a String")
a=[]
for i in s:
    if(i!=" "):
        a.append(i)

b=0
ch=''
for i in a:
    if(b<a.count(i)):
        b=a.count(i)
        ch=i

print(ch,"have Maximum frequency in given string")
```

```
Enter a Stringkrish gohel
h have Maximum frequency in given string
```

04) WAP to find Minimum frequency character in String.

In [8]:
```
s=input("Enter a String : ").lower()

all_frequency = {}

for i in s:
    if i in all_frequency:
        all_frequency[i] += 1
    else:
        all_frequency[i] = 1

res = min(all_frequency,key = all_frequency.get)

print(str(res),"have Manimum frequency in given string")
```

```
Enter a String : krish kris
h have Manimum frequency in given string
```

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

In [12]:
```
s = input("Enter a string : ")

for i in s:
    if i not in "01":
        print("Given String is not Binary String")
        break

else:
    print("Given String is Binary String")
```

```
Enter a string : 0101
Given String is Binary String
```

In [ ]:
```

```