

Q . Write a code to create empty string 'str1'.

In [1]:

```
str1 = ''
type(str1)
```

Out[1]: str

Q . If the length of string is 9, what would be the index value of middle element?

ans. 4

Q. Write a program to display each character of the following string in separate line using 'for' loop.

str1 = Welcome to My Blog

In [2]:

```
str1 = 'Welcome to My Blog'
for char in str1:
    print(char)
```

W
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l
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m
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t
o

M
y

B
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o
g

Q. Write a program to display each character of the following string in separate line using 'while' loop.

str1 = Welcome to My Blog

In [3]:

```
str1 = 'Welcome to My Blog'
char = 0
while char < len(str1):
    print(str1[char])
    char += 1
```

W
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c
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M
y

B
l
o
g

Q. find the index value of 'B' in the following string.

str1 = "Welcome to my Blog"

In [4]:

```
str1 = "Welcome to my Blog"
print('positive index of B is:',str1.index('B'))
print('positive index of B is:',str1.find('B'))
```

positive index of B is: 14
positive index of B is: 14

Write a program to count the length of string without using inbuilt function.

In [5]:

```
str = input('enter your string:')
count = 0
for i in str:
    count +=1
print('length of string is:',count)
```

enter your string:Python is very easy
length of string is: 19

Q. Write the code to join string 'str1' and 'str2' and store the result in variable 'str3'

In [6]:

```
str1 = 'i love'
str2 = 'programming'
str3 = str1 + ' ' + str2
str3
```

Out[6]: 'i love programming'

Q. Write a program to accept string and display total number of alphabets.

In [7]:

```
str = input('Enter the string:')
count = 0
for i in str:
    if i.isalpha() == True:
        count +=1
print('Total number of alphabets are',count)
```

Enter the string:I have 3 years experience and my salary is 1200000
Total number of alphabets are 33

Q. Write a program to accept a string and display the sum of the digits, if any present in string.

for example: input string : My position is 1st and my friend come on 4th

output : 5

In [8]:

```
str = input('Enter any string:')
sum = 0
for i in str:
    if i.isdigit() == True:
        sum = sum + int(i) # i is string ,convert it into integer for perform sum operation.
print('the sum of the digits',sum)
```

Enter any string:I have 3 years experience and my salary is 1200000
the sum of the digits 6

Q. Write a program to accept a string and convert it into lowercase.

In [9]:

```
str = input('Enter any string:')
print('string in lowercase:',str.lower())
```

Enter any string:I AM STRONG in PRoGrAmming
string in lowercase: i am strong in programming

Q. Write a program to count the number of lowercase and uppercase character in a string accepted from the user.

In [10]:

```
str = input('Enter any string:')
lc = 0
uc = 0
for i in str:
    if i.islower():
        lc = lc + 1
    if i.isupper():
        uc = uc + 1
print('count of lowercase characters is:',lc)
print('count of uppercase characters is:',uc)
```

Enter any string:WelCome In Data Science World
count of lowercase characters is: 19
count of uppercase characters is: 6

Q. Write a program to accept a string and display each word and it's length.

In [11]:

```
str = input('Enter any string:')
for i in str.split():
    print('the length of ', i,'is',len(i))
```

Enter any string:WelCome In Data Science World
the length of WelCome is 7
the length of In is 2
the length of Data is 4
the length of Science is 7
the length of World is 5

Q. Write a program to accept a string and display string with capital letter of each word.

for example, if input string is : welcome to my blog

output string : Welcome To My Blog

In [12]:

```
str = input('Enter ani string:')
print('my input string is:',str)
print('my output string is:',str.title())
```

Enter ani string:python is easy
my input string is: python is easy
my output string is: Python Is Easy

Q. Write a program to replace all the word 'do' with 'done' in the following string.

str1 = "I do you do and we all will do"

In [13]:

```
str1 = "I do you do and we all will do"
print(str1.replace('do','done'))
```

I done you done and we all will done

Q. Accept a string and display in reverse order.

In [14]:

```
str = input('Enter any string:')
print('my reverse string is:',str[::-1])
```

Enter any string:python is easy
my reverse string is: ysae si nohtyp

Q. Write a program to accept a string and display 20 times.

In [15]:

```
str = input('Enter any string:')
count = 1
for i in range(20):
    print(count,',',str)
    count = count + 1
```

Enter any string:More Practice , More Accuracy.
1 . More Practice , More Accuracy.
2 . More Practice , More Accuracy.
3 . More Practice , More Accuracy.
4 . More Practice , More Accuracy.
5 . More Practice , More Accuracy.
6 . More Practice , More Accuracy.
7 . More Practice , More Accuracy.
8 . More Practice , More Accuracy.
9 . More Practice , More Accuracy.
10 . More Practice , More Accuracy.
11 . More Practice , More Accuracy.
12 . More Practice , More Accuracy.
13 . More Practice , More Accuracy.
14 . More Practice , More Accuracy.
15 . More Practice , More Accuracy.
16 . More Practice , More Accuracy.
17 . More Practice , More Accuracy.
18 . More Practice , More Accuracy.
19 . More Practice , More Accuracy.
20 . More Practice , More Accuracy.

Q. Write a program to accept a string in python and display the entire string in upper case.

In [16]:

```
str = input('Enter any string:')
print(str.upper())
```

Enter any string:WelCome In Data Science World
WELCOME IN DATA SCIENCE WORLD

Q. Write a program to accept a string and display last three characters of the string.

In [17]:

```
str = input('Enter any string:')
print(' last three characters of the string:',str[-3:])
```

Enter any string:WelCome In Data Science World
last three characters of the string: rid

Q. Write a program to accept a string in python and display the entire string in lower case.

In [18]:

```
str = input('Enter any string:')
print('the string in lowercase:',str.lower())
```

Enter any string:WelCome In Data Science World
the string in lowercase: welcome in data science world

Q. Accept a string and display the entire string with first and last character in upper case.

In [19]:

```
str = input('Enter any string:')
print(str[0].upper() + str[1:-1] + str[-1].upper())
```

Enter any string:welcome in data science world
Welcome in data science world

Q. Write a program to accept a string and display first three characters of the string.

In [20]:

```
str = input('Enter any string:')
print('first three characters are: ',str[:3])
```

Enter any string:welcome in data science world
first three characters are: wel

Q. Write a function in python which accept a string as argument and display total number of vowels.

In [21]:

```
str = input('Enter any string:')

vowels = 'aeiouAEIOU'

def vowelcount(str):
    c = 0
    for i in str:
        if i in vowels:
            c = c + 1
    print('Total number of vowels are',c)
    vowelcount(str)
```

Enter any string:welcome in data science world
Total number of vowels are 10

Q. Write a function in python which accept a string as argument and display total number of lower case characters.

In [22]:

```
str = input('Enter any string:')

def lccount(str):
    count = 0
    for i in str:
        if i.islower() == True:
            count = count + 1
    print('Total number of lowercase are: ',count)
    lccount(str)
```

Enter any string:My Name Is SARAS
Total number of lowercase are: 5

Q. Write a function in python which accept a string as argument and display total number of digits.

In [23]:

```
str = input('Enter any string:')

def totaldigit(str):
    total_no = 0
    for i in str:
        if i.isdigit():
            total_no = total_no + 1
    print('Total number of digits:', total_no)
    totaldigit(str)
```

Enter any string:my experience is 4 years and my salary is 1200000
Total number of digits: 8

In []: