#to calculate the length of a string

```
str1='COMPUTER SCIENCE OR INFORMATICS
PRACTICES'
count = 0
for char in str1:
        count += 1
print(count)
```

#to compute sum of digits of a given string

```
str1='JK23 KSD 315 SD990'
sum = 0
for x in str1:
    if x.isdigit() == True:
        z = int(x)
        sum = sum + z
print(sum)
```

```python
#to capitalize first and last letters of each word of a
given string
str1='computer science and informatics practices'
str1 = result = str1.title()
result =  ""
for word in str1.split():
    result += word[:-1] + word[-1].upper() + " "
print(result)


#to count and display the vowels of a given text
text='computer science and informatics practices'
vowels='aeiuoAEIOU'
l=len([letter for letter in text if letter in vowels])
str=[letter for letter in text if letter in vowels]
print(l)
print(str)
#to swap comma and dot in a string
amount = "125.35,25"
maketrans = amount.maketrans
amount = amount.translate(maketrans(',.', '.,'))
print(amount)
```

```python
#to lowercase first n characters in a string
str1 = 'COMPUTER SCIENCE'
str=str1[:8].lower() + str1[8:]
print(str)


#to convert a string in a list
str1 = "computer science and informatics practices"
s=str1.split(' ')
print(s)



#to reverse a string
str1 = "computer science and informatics practices"
s=''.join(reversed(str1))
print(s)



#to count occurrences of a substring in a string
str1 = "computer science and informatics practices"
n=str1.count("science")
print(n)
```

```python
#to format a number with a percentage
x = 0.75
print("\nOriginal Number: ", x)
print("Formatted Number with percentage: "+"{:.2%}".format(x));


#to check string is palindrome or not
s=input("enter string")
rev = s[::-1]
if (s == rev):
    print("string is palindrom")
else:
    print("string is not palindrom")
```