

## STRING MANIPULATION/TEXT HANDLING

### PROGRAMS

#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)
```

#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)
```

#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)
```

#to format a number with a percentage

```
x = 0.75
```

```
print("\nOriginal Number: ", x)
```

```
print("Formatted Number with percentage:  
"+"{:0.2%}".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")
```