

4) From the string input, count the special characters, alphabets, digits, lowercase and uppercase characters.

Input: Sathyabama 2019 @

Output: Digits: 4 Alphabets: 10 Special Characters: 1 Lowercase: 9 Uppercase: 1

```
string=input("enter the string : ")
alphabets = digits = special = 0
for i in range(len(string)):
    if(string[i].isalpha()):
        alphabets = alphabets +1
    elif(string[i].isdigit()):
        digits = digits + 1
    else:
        special = special + 1
print("total no. of alphabets in a string : ",alphabets)
print("total no. of digits in a string : ",digits)
print("total no. of special characters in a string : ",special)
l=0
u=0
for i in string:
    if(i>='a' and i<='z'):
        l=l+1
    if(i>='A' and i<='Z'):
        u=u+1
print("total no. of lowercase characters : ",l)
print("total no. of uppercase characters : ",u)
```

```
enter the string : Sathyabama 2019 @
total no. of alphabets in a string : 10
total no. of digits in a string : 4
total no. of special characters in a string : 3
total no. of lowercase characters : 9
total no. of uppercase characters : 1
```

5) For given Input String (s) and Width (w). Wrap the string into a paragraph of width w.

Input: s = Sathyabama w = 3

Output:

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5)For given Input String (s) and Width (w). Wrap the string into a paragraph of width w.

Input: s = Sathyabama w = 3

Output:

Sat

hya

ban

a

+ Code+ Text

```
[3] i=0
n=input("enter the string : ")
w=int(input("enter the width"))
print(len(n))
while(i<len(n)):
    print(n[i:i+w])
    i+=w
```

enter the string : sathyabama

enter the width3

10

sat

hya

ban

a

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6)Print of the String "Welcome". Matrix size must be N X M. ( N is an odd natural number, and M is 3 times N.). The design should have

'WELCOME' written in the center. The design pattern should only use |, .and - characters.

```
n, m = map(int,input().split())
pattern = [('.')*(2*i + 1)).center(m, '-') for i in range(n//2)]
print('\n'.join(pattern + ['WELCOME'.center(m, '-')] + pattern[::-1]))
```

7 21

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---|.|.|.|.|.---  
-----WELCOME-----  
---|.|.|.|.|.---  
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