3a. Write a Python program that accepts a sentence and find the number of words, digits, uppercase letters and lowercase letters.

```
x = input("Enter a sentence")
y = x
print("There are",len(x.split())," words in the sentence")
digits,upper,lower=0,0,0
for i in x:
    if i.isdigit():
        digits+=1
    elif i.isupper():
        upper+=1
    elif i.islower():
        lower+=1
print("There are {0} digits, {1} upper case characters and {2} lower case characters in the sentence".format(digits,upper,lower))
```

Output:

Enter a sentence Hi Hello Bangalore

There are 3 words in the sentence

There are 0 digits, 3 upper case characters and 13 lower case characters in the sentence

3b. Write a Python program to find the string similarity between two given strings

Sample Output:Sample Output:Original string:Original string:Python ExercisesPython ExercisesPython ExercisesPython Exercise

Similarity between two said Similarity between two said

strings: strings:

1.0 0.967741935483871

```
if __name__ == '__main__':
  x = input("Enter first String")
  y = input("Enter second String")
  x = x.strip()
  y = y.strip()
  sim=0
  if len(x)>len(y):
     xx = x
     yy = y
  else:
    xx = y
    yy = x
  j=0
  for i in yy:
    if i==xx[j]:
       sim+=1
```

```
else: pass j+=1 similarity = (sim/len(xx)) print("The similarity between the two given strings is", similarity)
```

Output:

1. Enter first String Bangalore

Enter second String Mysore

The similarity between the two given strings is 0.0

2. Enter first String Hello

Enter second String Hello

The similarity between the two given strings is 1.0

3. Enter first String Bangeluru

Enter second String Bangalore