Q.1. Given a sentence as input, calculate and output the average word length of that sentence. To calculate the average word length, you need to divide the sum of all word lengths by the number of words in the sentence.

Sample Input:
this is some text

Sample Output:
3.5

Explanation:
There are 4 words in the given input, with a total of 14 letters, so the average length will be: 14/4 = 3.5

In [ ]:

```python
taken_input = input()
# Given input is "This is some text"

str_split = taken_input.split()
# Split function help us to separate string after space,which makes it easy to count number

replace_space = taken_input.replace(" ","")
# Replace function is used to replace something in a syntax. Here we are replacing spaces wi

print (len(replace_space)/len(str_split))
```

Sourse: SOLOLEARN (pyhton Basics)

- #### _Issues which i faced while solving this problem:_

1. While working on this problem! the biggest question was in my mind how to count the exact length of words without counting the spaces in between them.
2. While counting the length with the help of len FUNCTION it was also counting spaces in a sentence as length.
3. replacing the spaces with no spaces (taken_input.replace(" ","")) was the approach in my mind which will work to solve the above problem which I was facing in point number 2.

In [ ]:

Q.2. Take a string as input and output each letter of the string on a new line, repeated N times, where N is the position of the letter in the string.

Sample Input:
data

Sample Output:
d
aa
t t t
aaaa

Solution:

In [1]:

```python
N = "Data"

for i in range(len(N)):
```

```
    print(N[i]* (i +1))
```

D
aa
ttt
aaaa

In [ ]: