

Assignment No.1

You have the following two multiple line string,

```
st1 = Most people are not very familiar with the concept of artificial
intelligence (AI). As an illustration, when 1,500 senior business leaders in
the United States in 2017 were asked about AI, only 17 percent said they were
familiar with it.[1] A number of them were not sure what it was or how it
would affect their particular companies. They understood there was
considerable potential for altering business processes, but were not clear
how AI could be deployed within their own organizations.
Darrell West, director and vice president of Governance Studies. 2/2017
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President, The Brookings Institution
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Despite its widespread lack of familiarity, AI is a technology that is transforming every walk of life. It is a wide-ranging tool that enables people to rethink how we integrate information, analyze data, and use the resulting insights to improve decision making. Our hope through this comprehensive overview is to explain AI to an audience of policymakers, opinion leaders, and interested observers, and demonstrate how AI already is altering the world and raising important questions for society, the economy, and governance.

In this paper, we discuss novel applications in finance, national security, health care, criminal justice, transportation, and smart cities, and address issues such as data access problems, algorithmic bias, AI ethics and transparency, and legal liability for AI decisions. We contrast the regulatory approaches of the U.S. and European Union, and close by making a number of recommendations for getting the most out of AI while still protecting important human values.[2]

In order to maximize AI benefits, we recommend nine steps for going forward:

```
    Encourage greater data access for researchers without compromising users'
personal privacy,
    invest more government funding in unclassified AI research,
    promote new models of digital education and AI workforce development so
employees have the skills needed in the 21st-century economy,
    create a federal AI advisory committee to make policy recommendations,
    engage with state and local officials so they enact effective policies,
    regulate broad AI principles rather than specific algorithms,
    take bias complaints seriously so AI does not replicate historic
injustice, unfairness, or discrimination in data or algorithms,
    maintain mechanisms for human oversight and control, and
    penalize malicious AI behavior and promote cybersecurity.'''
```

```
st2 = '''Most people are not very familiar with the concept of artificial
intelligence (AI). As an illustration, when 1,500 senior business leaders in
the United States in 2017 were asked about AI, only 17 percent said they were
familiar with it.[1] A number of them were not sure what it was or how it
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You will make two separate functions. Each function will have two parameters, and you will pass the above defined strings to that function.

First function will compare strings word by word, for this both strings will be split into words (use str split method – read from Python documentation about this function). At the end of the comparison, you will print “two strings are equal”, or, “two string are not equal”.

Second function will do the above but there will be no split rather you will use interning method to compare both strings.

Third you will time profiling the both function call. Mean, you will check how much time first function take to complete and how much time second function will take time, and you will print that time. [For time profiling use the package time (import time) and use the package function time.perf_counter()]

Further, you will write another function name word_count. This function will take one parameter. This parameter will be a string. This function will count the words in the syntax with the help of dictionary. This function will return that dictionary, which consists of that sample output

```
{.....,  
'widespread': 1,  
'lack': 1,  
'familiarity': 1,  
'is': 5,  
'a': 4,  
'technology': 1,  
'that': 2,  
'transforming': 1,  
..... }
```

Then you will call the function two time for string st1 and st2. Their result will be stored in the two different dictionaries. Finally, you will compare these two dictionaries to check the both strings are equal or not.

Note: in case of copying or plagiarism, zero will be given to both or all the candidates who are involve in plagiarism. Also, after dead line no assignment will be accepted