

### **Github link :**

[https://github.com/sandeepvemulakonda/CS\\_5103\\_ion054](https://github.com/sandeepvemulakonda/CS_5103_ion054)

### **Word Statistics :**

In this project the initial requirement is to count the frequency of each unique word. Provided with the second requirement to replace the occurrences of the existing word to a given replacement word.

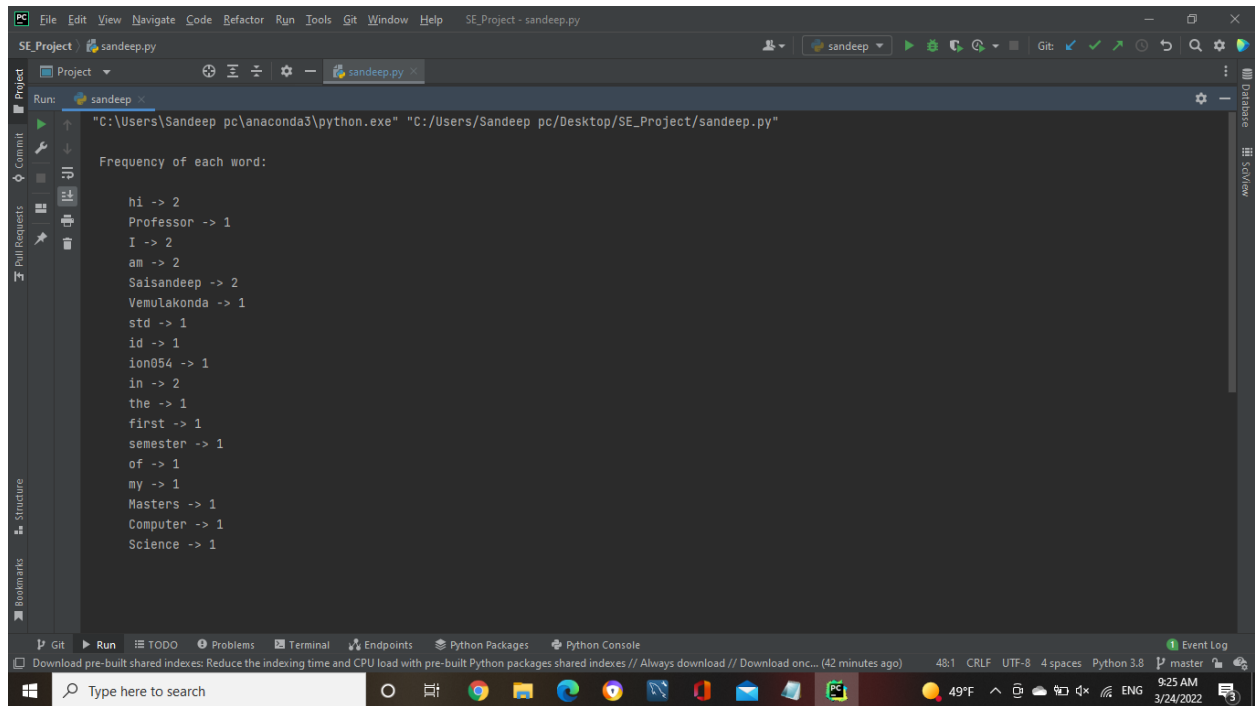
### **Code Implementation :**

In the code I have included the first function as **UniqueWordCount** which returns the frequency of unique words. I created an empty word dictionary to store and update word count for each unique word. Second function as **ReplaceWord** which replaces the existing word with the given new word.

We will give input as a sample text file and the output will be a list of the frequencies of words. Also we need to give the existing and the new word, to replace the existing word with a new word.

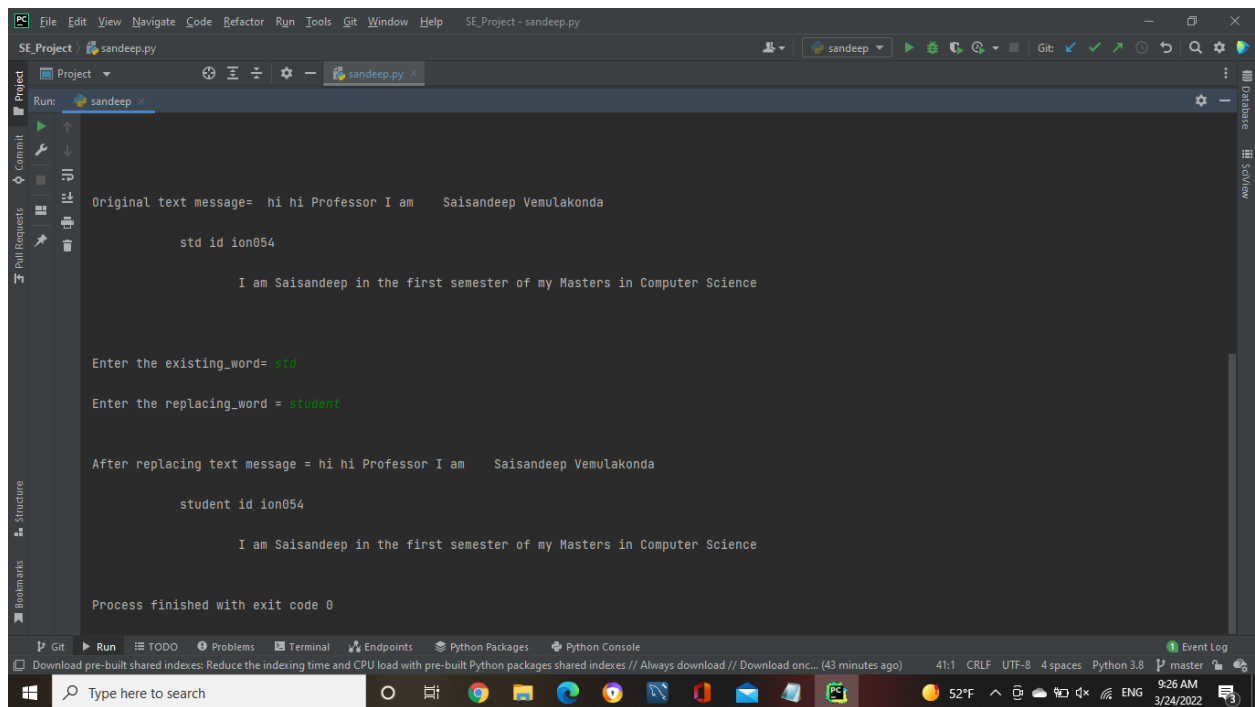
I have used the PyCharm editor to run my python code. The name of the file is **sandeep.py** and also I have created a sample text file in which we will store the string. I have uploaded the code in the github account as a public repository. Open the Python file(saved as .py file) and the sampleText file in the github repository, download it and run it.

## Output Screenshot :



The screenshot shows a Python script execution in an IDE. The output displays the frequency of each word in a given text. The words and their frequencies are:

```
Frequency of each word:  
  
hi -> 2  
Professor -> 1  
I -> 2  
am -> 2  
Saisandeep -> 2  
Vemulakonda -> 1  
std -> 1  
id -> 1  
ion054 -> 1  
in -> 2  
the -> 1  
first -> 1  
semester -> 1  
of -> 1  
my -> 1  
Masters -> 1  
Computer -> 1  
Science -> 1
```



The screenshot shows a Python script execution in an IDE. The output displays the original text message, the words to be replaced, and the resulting text after replacement. The original text message is "hi hi Professor I am Saisandeep Vemulakonda". The words to be replaced are "std" and "student". The resulting text after replacement is "hi hi Professor I am Saisandeep Vemulakonda".

```
Original text message= hi hi Professor I am Saisandeep Vemulakonda  
  
std id ion054  
  
I am Saisandeep in the first semester of my Masters in Computer Science  
  
Enter the existing_word= std  
Enter the replacing_word = student  
  
After replacing text message = hi hi Professor I am Saisandeep Vemulakonda  
  
student id ion054  
  
I am Saisandeep in the first semester of my Masters in Computer Science  
  
Process finished with exit code 0
```