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Batch: S21, Roll No: 72  
Seat No: 201020  
Date: 20/05/2021



### **PYTHON PRACTICAL EXAMINATION (Set-1)**

#### **Question:**

Write a function in Python to read lines from a text file "notes.txt". For example: If the content of the file is:

"India is the fastest-growing economy. India is looking for more investments around the globe. The whole world is looking at India as a great market. Most of the Indians can foresee the heights that India is capable of reaching."

- a. Word\_frequency to display the frequency of occurrence of any user defined word.
- b. display\_words to read lines from a text file, and display those words, which are less than 4 characters.
- c. Count\_words to display the total number of words in a text file.
- d. Convert\_upper to convert and display the text file as uppercase character

#### **Program:**

##### **notes.txt**

India is the fastest-growing economy. India is looking for more investments around the globe. The whole world is looking at India as a great market. Most of the Indians can foresee the heights that India is capable of reaching.

##### **Prac 72.py**

```
file = open("notes.txt", "rt")
```

```
data = file.read()
```

```
def word_frequency():
```

```
    words = data.split()
```

```
    user = input("Enter a string to find the frequency: ")
```

```
    print("The frequency of {} is {}".format(user,  
words.count(user)))
```

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```
def display_words():  
    word = data.split()  
    for w in word:  
        if len(w) < 4:  
            print(w, end=" ")  
    print("")
```

```
def count_words():  
    words = data.split()  
    print("Number of words in text file :", len(words))
```

```
def convert_upper():  
    new = data.upper()  
    print(new)
```

```
choice = 0  
while choice != 5:  
    print("-----")  
    print("\nSelect one option : ")  
    print(  
        " 1. Find the frequency of a given word\n 2. Display the  
words having length less than 4 letters\n 3. Count the total number  
of words in the text file\n 4. Convert the text to upper case and  
print\n 5. Exit"  
    )
```

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```
print("\n-----")
```

```
choice = int(input("Your Choice: "))
if choice == 1:
    word_frequency()
elif choice == 2:
    display_words()
elif choice == 3:
    count_words()
elif choice == 4:
    convert_upper()
elif choice == 5:
    exit()
else:
    print("No such input exists")
```

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**Output:**

```
PS C:\Users\Pranav Dani\Desktop\Python_pracs> python -u  
"c:\Users\Pranav Dani\Desktop\Python_pracs\Prac_72.py"
```

-----

Select one option :

1. Find the frequency of a given word
2. Display the words having length less than 4
3. Count the total number of words in the text file
4. Convert the text to upper case and print
5. Exit

-----

Your Choice: 1

Enter a string to find the frequency: India

The frequency of India is 4

-----

Select one option :

1. Find the frequency of a given word
2. Display the words having length less than 4
3. Count the total number of words in the text file
4. Convert the text to upper case and print
5. Exit

-----

Your Choice: 2

is the is for the The is at as a of the can the is of

Select one option :

1. Find the frequency of a given word
  2. Display the words having length less than 4
  3. Count the total number of words in the text file
  4. Convert the text to upper case and print
  5. Exit
- 

Your Choice: 3

Number of words in text file : 39

-----

Select one option :

1. Find the frequency of a given word
  2. Display the words having length less than 4
  3. Count the total number of words in the text file
  4. Convert the text to upper case and print
  5. Exit
- 

Your Choice: 4

INDIA IS THE FASTEST-GROWING ECONOMY. INDIA IS LOOKING FOR MORE INVESTMENTS AROUND THE GLOBE. THE WHOLE WORLD IS LOOKING AT INDIA AS A GREAT MARKET. MOST OF THE INDIANS CAN FORESEE THE HEIGHTS THAT INDIA IS CAPABLE OF REACHING.

-----

Select one option :

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1. Find the frequency of a given word
2. Display the words having length less than 4
3. Count the total number of words in the text file
4. Convert the text to upper case and print
5. Exit

-----  
Your Choice: 5