

Skills Development Lab

Assignment: Python – Word Count

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Problem Statement

The program takes a word and file name from the user and counts the number of occurrences of that word in the file

Logic

1. Ask the user to enter the file name
2. Try to open that file, if it doesn't exist then raise error, inform use and exit program.
3. If the file is successfully opened then ask the user to enter the search word
4. Navigate the file line by line.
5. Break each line into words using split() function
6. Iterate over each word and match it with the search word
7. On every match increment the occurrence count by 1
8. After all the words are checked, check the occurrence count
9. If occurrence count > 0 then print that the word is present that many times in the document
10. If occurrence count =0 then print that word does not exist in the document

CODE

```
file_name = str(input("Enter the File name : "))  
  
try:  
    search_word = str(input("Enter to word : "))  
    search_word = search_word.lower()
```

```

file=open(f"{file_name}.txt")
file_text=file.read()
file_text = file_text.split("\n")
words=[]
count=0
for line in file_text:
    for word in line.split(" "):
        if word.lower() == search_word :
            count+=1

print("\nWord count Results :\n")
if count > 0:

    print(f"Word : {search_word} - Occurs {count} times in File : {file_name}
.txt")
else:
    print(f"Word : {search_word} - Does not Occurs in File : {file_name}.txt"
)
except:
    print("File not found please try again")

```

Output

```

Enter the File name : words
Enter to word : no

Word count Results :

Word : no - Occurs 6 times in File : words.txt

```

```

Enter the File name : words
Enter to word : to

Word count Results :

Word : to - Occurs 6 times in File : words.txt

```

```

Enter the File name : words
Enter to word : hi

Word count Results :

Word : hi - Does not Occurs in File : words.txt

```

```

Enter the File name : words
Enter to word : this

Word count Results :

Word : this - Does not Occurs in File : words.txt

```