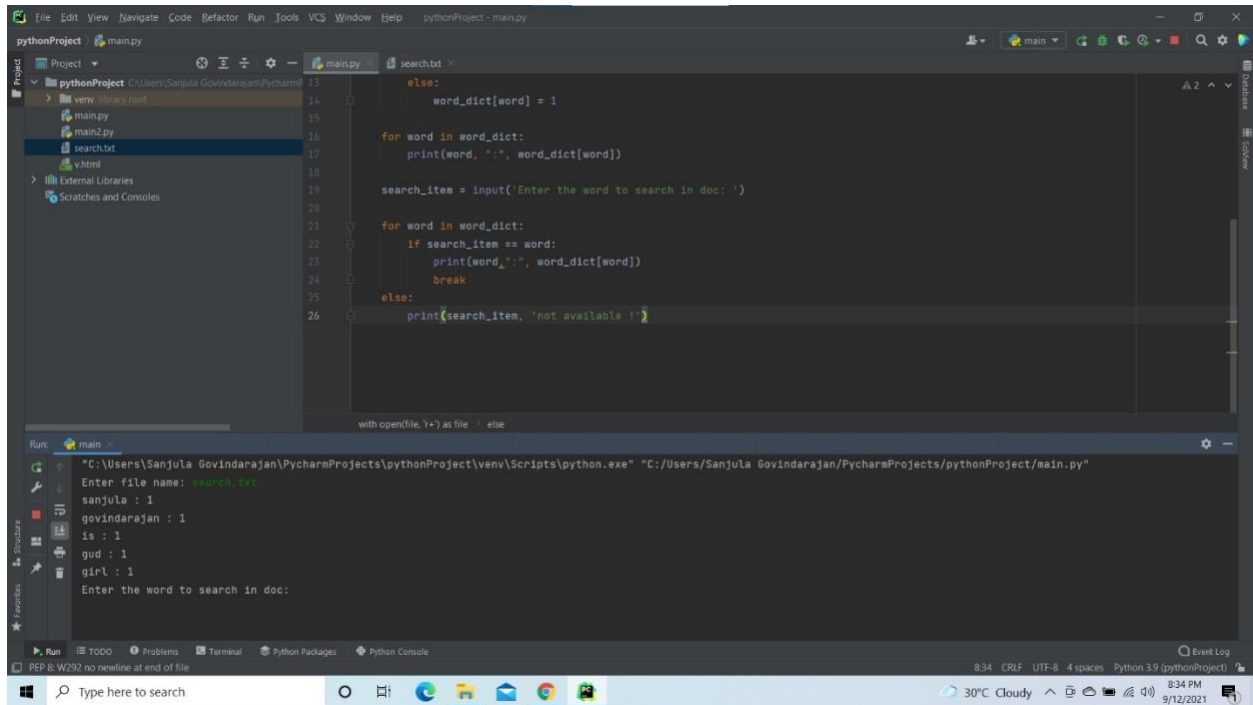


Sanjula. G 20370050

M. Sc computer science

Network lab

1.No. Of times the word occur



The screenshot shows the PyCharm IDE with a project named 'pythonProject'. The file explorer on the left shows a directory structure with 'venv', 'main.py', 'main2.py', and 'search.txt'. The main editor displays the code in 'main.py' (lines 13-26). The code reads a file 'search.txt' and counts the occurrences of each word. The Run console at the bottom shows the execution output, including the file name 'search.txt' and the word counts for 'sanjula', 'govindarajan', 'is', 'gud', and 'girl'.

```
13 word_dict = {}
14 else:
15     word_dict[word] = 1
16
17 for word in word_dict:
18     print(word, ":", word_dict[word])
19
20 search_item = input('Enter the word to search in doc: ')
21
22 for word in word_dict:
23     if search_item == word:
24         print(word, ":", word_dict[word])
25         break
26 else:
27     print(search_item, 'not available !')
```

Run: main --
"C:\Users\Sanjula Govindarajan\PycharmProjects\pythonProject\venv\Scripts\python.exe" "C:\Users\Sanjula Govindarajan\PycharmProjects\pythonProject\main.py"
Enter file name: search.txt
sanjula : 1
govindarajan : 1
is : 1
gud : 1
girl : 1
Enter the word to search in doc:

```
file = input('Enter file name: ')
```

```
with open(file, 'r+') as file:
```

```
    contents = file.read().lower()
```

```
    contents_list = contents.split()
```

```
    word_dict = {}
```

```
    for word in contents_list:
```

```
        if word[-1] == '':
```

```
            word = word[:-1]
```

```
        if word in word_dict:
```

```
word_dict[word] = word_dict[word]+1
```

```
else:
```

```
word_dict[word] = 1
```

```
for word in word_dict:
```

```
print(word, ":", word_dict[word])
```

```
search_item = input('Enter the word to search in doc: ')
```

```
for word in word_dict:
```

```
if search_item == word:
```

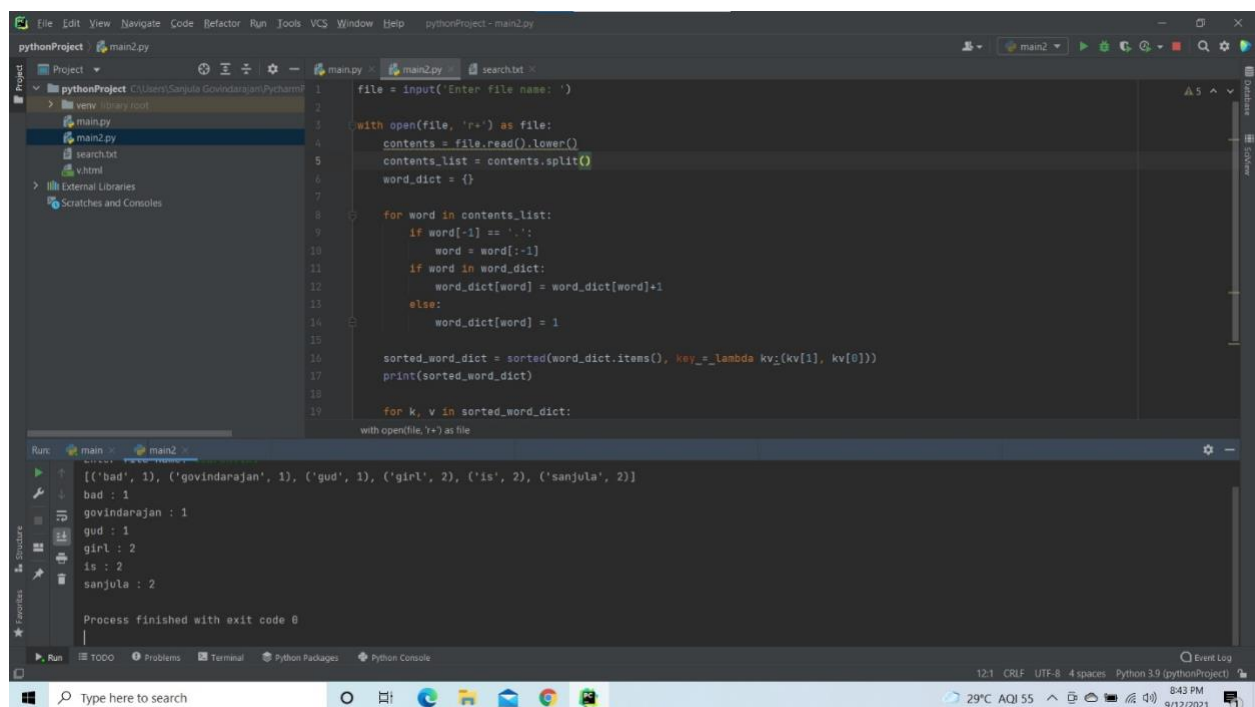
```
print(word, ":", word_dict[word])
```

```
break
```

```
else:
```

```
print(search_item, 'not available !')
```

2. All words in document without repetition listed in asc/desc along with no. Of occurred



The screenshot shows a PyCharm IDE with a Python script in the main editor and its output in the Run console. The script reads a file named 'search.txt' and counts the occurrences of each word. The output in the console shows the words and their counts, sorted by frequency in descending order.

```
1 file = input('Enter file name: ')
2
3 with open(file, 'r+') as file:
4     contents = file.read().lower()
5     contents_list = contents.split()
6     word_dict = {}
7
8     for word in contents_list:
9         if word[-1] == '.':
10             word = word[:-1]
11         if word in word_dict:
12             word_dict[word] = word_dict[word]+1
13         else:
14             word_dict[word] = 1
15
16 sorted_word_dict = sorted(word_dict.items(), key=_lambda kv:(kv[1], kv[0]))
17 print(sorted_word_dict)
18
19 for k, v in sorted_word_dict:
```

with open(file, 'r+') as file:

```
Run: main - main2
[('bad', 1), ('govindarajan', 1), ('gud', 1), ('girl', 2), ('is', 2), ('sanjula', 2)]
bad : 1
govindarajan : 1
gud : 1
girl : 2
is : 2
sanjula : 2
Process finished with exit code 0
```

```
file = input('Enter file name: ')
```

```
with open(file, 'r+') as file:
```

```
    contents = file.read().lower()
```

```
    contents_list = contents.split()
```

```
    word_dict = {}
```

```
    for word in contents_list:
```

```
        if word[-1] == '.':
```

```
            word = word[:-1]
```

```
        if word in word_dict:
```

```
            word_dict[word] = word_dict[word]+1
```

```
        else:
```

```
            word_dict[word] = 1
```

```
sorted_word_dict = sorted(word_dict.items(), key = lambda kv:(kv[1], kv[0]))
```

```
print(sorted_word_dict)
```

```
for k, v in sorted_word_dict:
```

```
    print(k, ': ', v)
```