



UNIVERSITY OF
SINDH

Assignment Of
Python Programming
Task 1 & 2

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Question No:1

TASK 1

Write a Python program that takes input from the user the name of a text file (the file contains the text given below), and counts and displays the number of times each word occurs in the file.

Concepts to use in this task: Reading a text file, creating and updating a dictionary, iterating through a dictionary and displaying its contents.

my_file.txt

It was the best of times, it was the worst of times, it was the age of wisdom, it was the age of foolishness, it was the epoch of belief, it was the epoch of incredulity, it was the season of light, it was the season of darkness, it was the spring of hope, it was the winter of despair.
(Charles Dickens, *A Tale of Two Cities*)

TASK-1

1st Method

Using a Loop Method

Source Code:

```
fname = input("Enter the File Name:")
try:
    fhand=open(fname,'r')
    a = dict()
    for line in fhand:
        words = line.split()
        for word in words:
            if word in a:
                a[word] = a[word] + 1
```

```

else:

    a[word] = 1

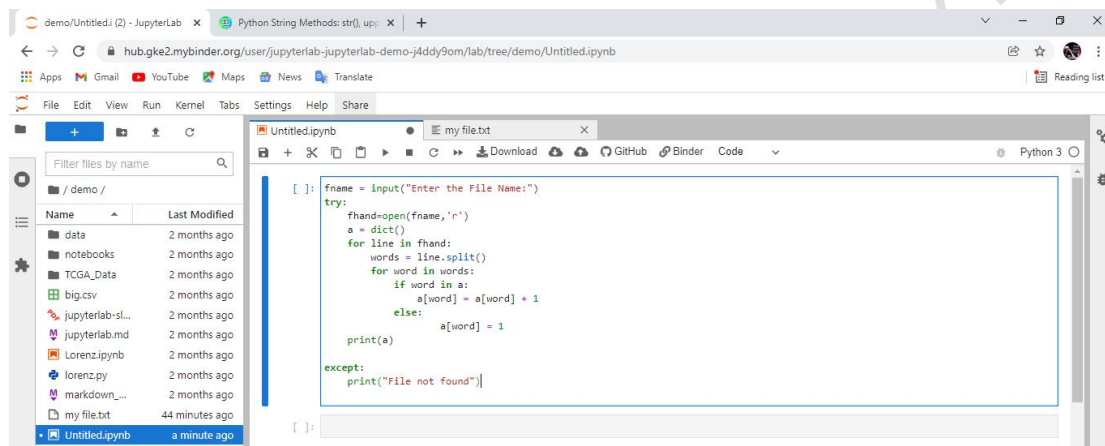
print(a)

except:

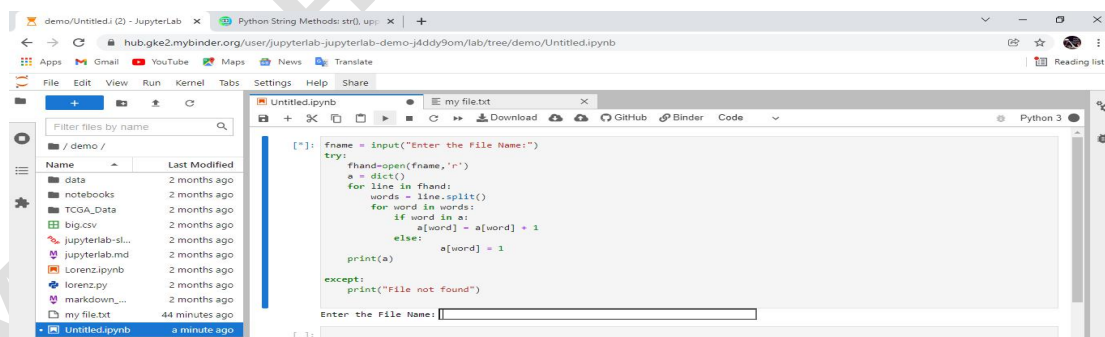
    print("File not found")

```

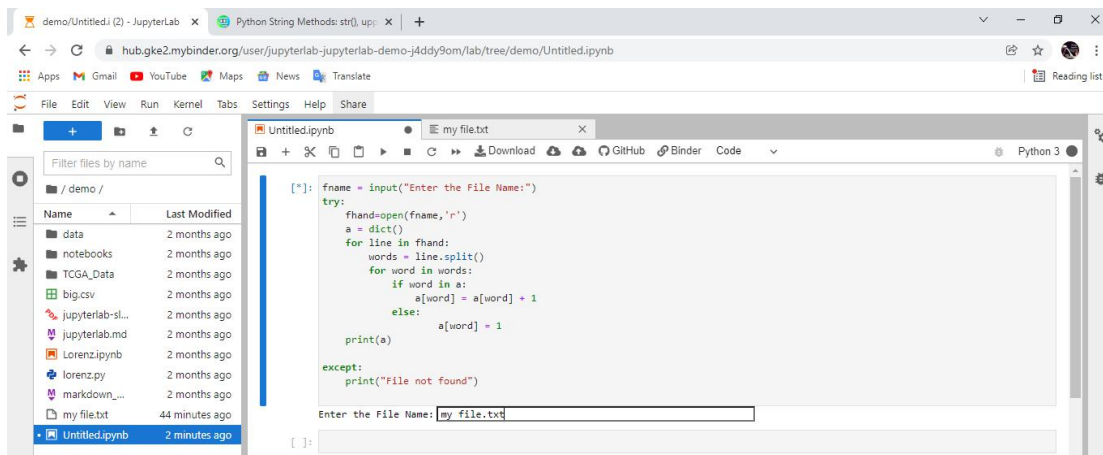
Code Screenshots:



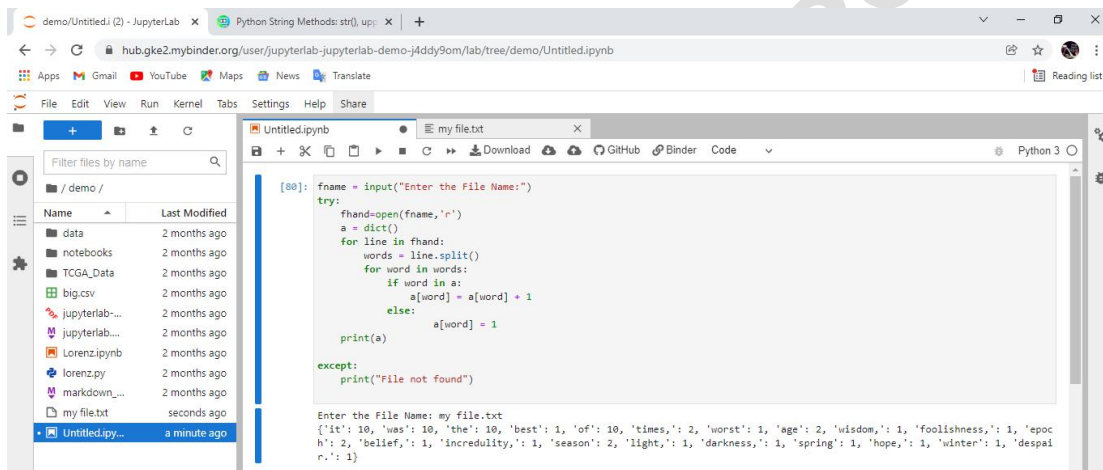
Executing Program:



Enter File Name:



Code Output:



2nd Method

Using a GET Function

Source Code:

```
##Using Get Method

a = input("Enter the File Name:")

try:

    fhand = open(a)
```

```

d1 = dict()

for line in fhand:

    words = line.split()

    for word in words:

        d1[word] = d1.get(word, 0) + 1

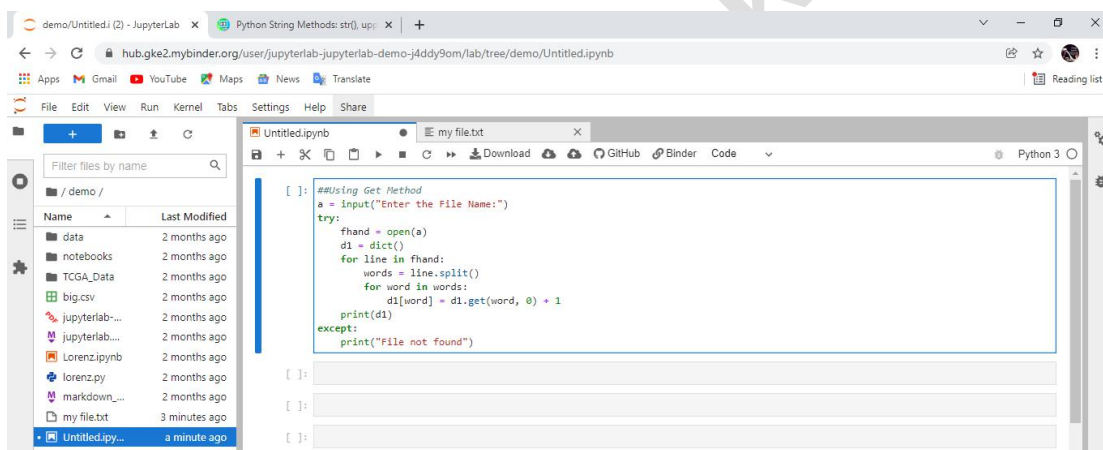
print(d1)

except:

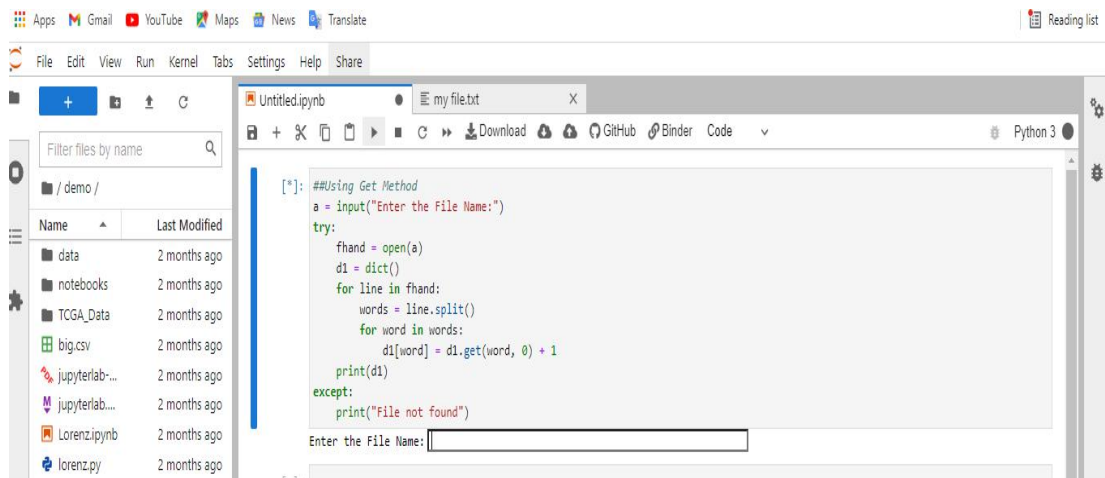
    print("File not found")

```

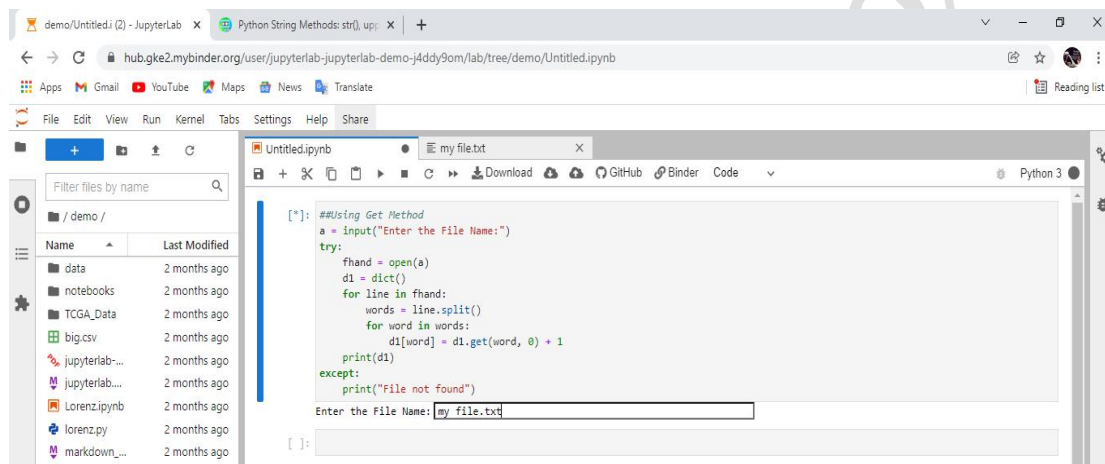
Code Screenshot:



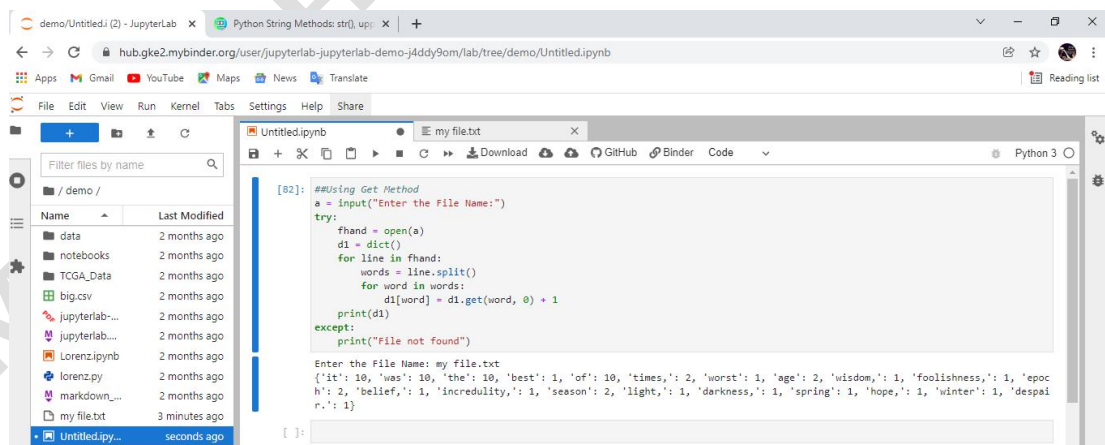
Executing Program:



Enter File Name:



Output of Code:



Question No:2

TASK 2

Write a Python program to maintain a user's todo items in a text file. The program repeatedly asks the user to input a todo item. The todo item is appended to the text file (my_todos.txt). Additionally, if the user enters 'SHOW', the items from the todo file (my_todos.txt) are displayed and the program exits.

Concepts to use in this task: Reading and writing (appending) to a text file, reading and displaying the contents of a file line by line.

TASK-2

TODO-ITEM-LIST

Source Code:

```
file = open('to-do-file.txt', 'a')
```

```
Enter_Products = ''
```

```
while True:
```

```
    Enter_Products = input('Enter your to-do item \n (EXIT to quit program; SHOW  
to display all items): ')
```

```
    if (Enter_Products == 'EXIT'):
```

```
        break
```

```
    elif (Enter_Products == 'SHOW'):
```

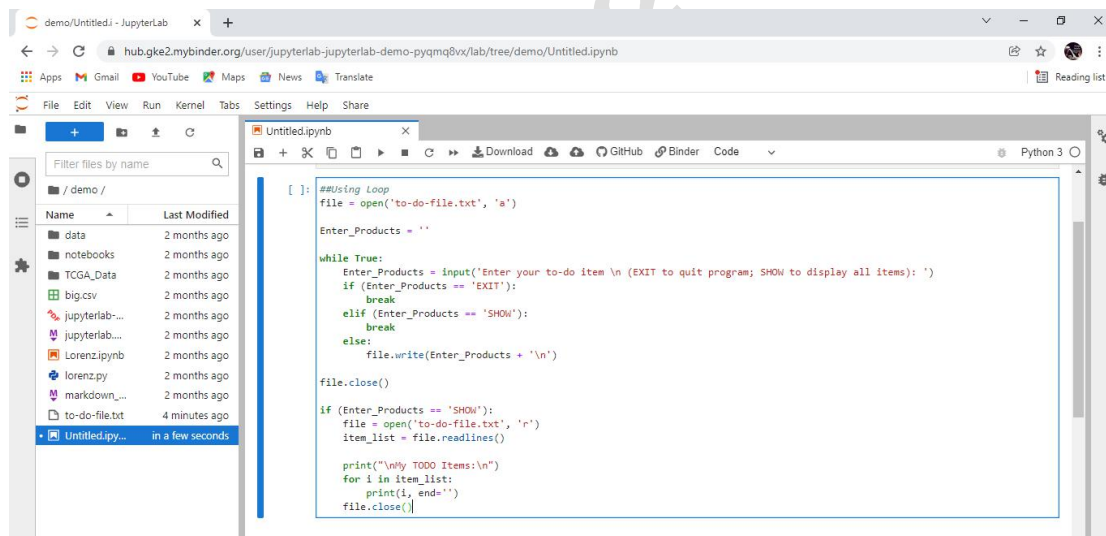
```
        break
```

```
    else:
```

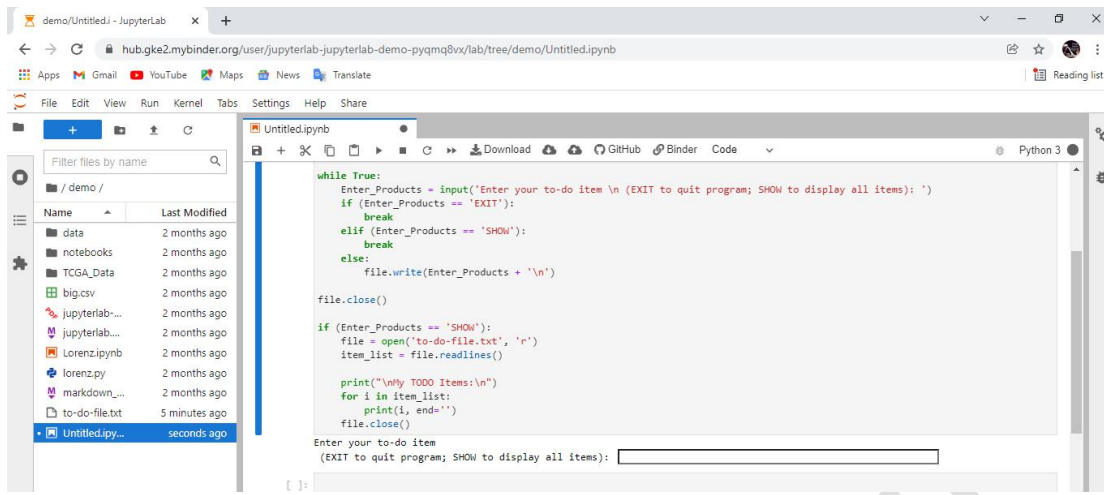
```
        file.write(Enter_Products + '\n')
```

```
file.close()
```

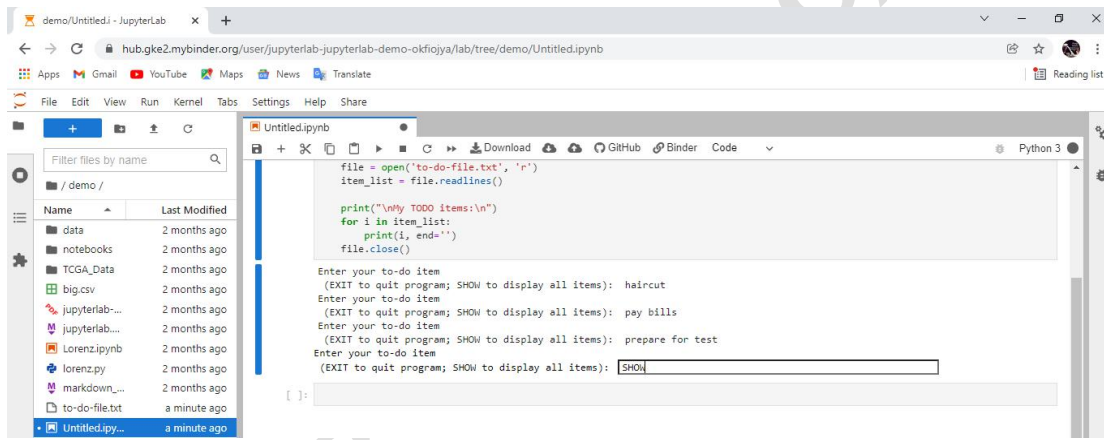
```
if (Enter_Products == 'SHOW'):  
  
    file = open('to-do-file.txt', 'r')  
  
    item_list = file.readlines()  
  
    print("\nMy TODO items:\n")  
  
    for i in item_list:  
        print(i, end='')  
  
    file.close()
```



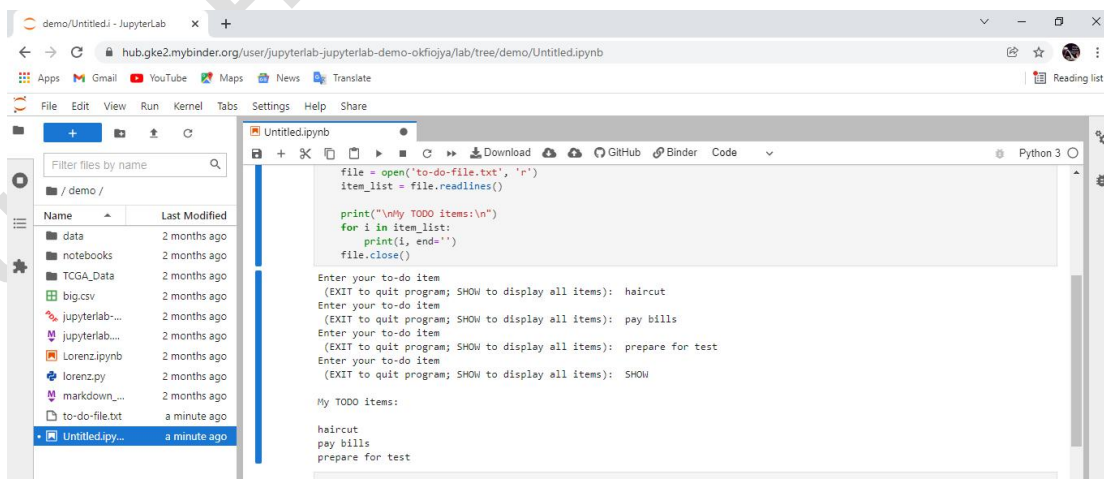
Entering The LIST:



Show TODO-LIST:



Output TODO-LIST:



The End

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