Module 5
Exception handling and File Handling

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Experiment 8A

Aim: Write a python program to accept username and store the data in a file. Display the data stored in the file.

Program:

```
us=open("Users.txt","a")
n=input("Enter user name")
us.write(n) us.close()
da=open("Users.txt","r"
) d=da.read()
print("User Details")
print(d)
```

Output:

```
= RESTART: C:/PARTH PATIL/exp_8_A.py
Enter user name Parth Patil
User Details
 Parth Patil
```

Experiment 8B

Aim: Write a Python program to

- to append data to existing file and then display the entire file
- to count the number of lines, words and characters in a file.
- to display file available in current directory

Program:

```
import os

def getChoice():
   print("\n----------------------------------------------")
   print("Menu\n","(A) append data to existing file and then display the entire file \n",
"(B) count the number of lines, words and characters in a file. \n",
"(C) display file available in current directory \n","(Q)uit")
choose=input("Enter your choice: ")     choice=choose.lower()

   return choice


def fileFirstFunc():

   fileName1 = input("Enter file to read the content from: ")#Test.txt
fileName2 = input("Enter file to append content: ")#Sample.txt     f1
= open(fileName1, "r")#Test.txt is opened in read mode      data2 =
f1.read()    f1.close()
   f2 = open(fileName2, "a")#Sample.txt is opened in append
mode    f2.write("\n")    f2.write(data2)
   f2.close()
   f2  =  open(fileName2,  "r")          line=f2.readline()
print("Contents of the new file after appending data")
while(line!=""):
      print(line,end="")
line=f2.readline()
f2.close()


def fileSecondFunc():
```

```
   num_lines        =        0
num_words        =        0
num_char  =  0          f  =
open("Test.txt", "r")    for
line in f:
      num_lines  =  num_lines  +  1
words = line.split()
      print("Words after spliting in line",num_lines,": ",words)
      num_words = num_words + len(words)
# Again set the pointer to the beginning
f.seek(0,0)     data = f.read()     num_char =
len(data)          print("Number of lines:")
print(num_lines)          print("Number of
words:")    print(num_words)
   print("Number  of  Character  including  white  spaces")
print(num_char)

def fileThirdFunc():        cwd = os.getcwd()
print("Current working directory:", cwd)
for root, dirs, files in os.walk("."):
      print(root,dirs)
for filename in files:
print(filename)


choice = getChoice()
while  choice!="q":
if  choice  ==  "a":
fileFirstFunc()    elif
choice=="b":
fileSecondFunc()
elif      choice=="c":
fileThirdFunc()
else:
      print("Invalid choice, please choose again")
      print("\n")

   choice = getChoice()
```

Output:

Menu
(A) append data to existing file and then display the entire file
(B) count the number of lines, words and characters in a file.
(C) display file available in current directory
(Q)uit
Enter your choice: a
Enter file to read the content from: Test.txt
Enter file to append content: Sample.txt
Contents of the new file after appending data

hello guys I am Parth Patil
Student At Pillai clg og
Engg div B rollno 43 hello
guys I am Parth Patil
Student At Pillai clg og
Engg div B rollno 43 hello
guys I am Parth Patil
Student At Pillai clg og
Engg div B rollno 43 hello
guys I am Parth Patil
Student At Pillai clg og
Engg div B rollno 43 hello
guys I am Parth Patil
Student At Pillai clg og
Engg div B rollno 43 hello
guys I am Parth Patil
Student At Pillai clg og
Engg div B rollno 43 hello
guys I am Parth Patil
Student At Pillai clg og
Engg div B rollno 43

Menu
(A) append data to existing file and then display the entire file
(B) count the number of lines, words and characters in a file.
(C) display file available in current directory
(Q)uit
Enter your choice: b
Words after spliting in line 1 : ['hello', 'guys', 'I', 'am', 'Parth', 'Patil']
Words after spliting in line 2 : ['Student', 'At', 'Pillai', 'clg', 'og', 'Engg']

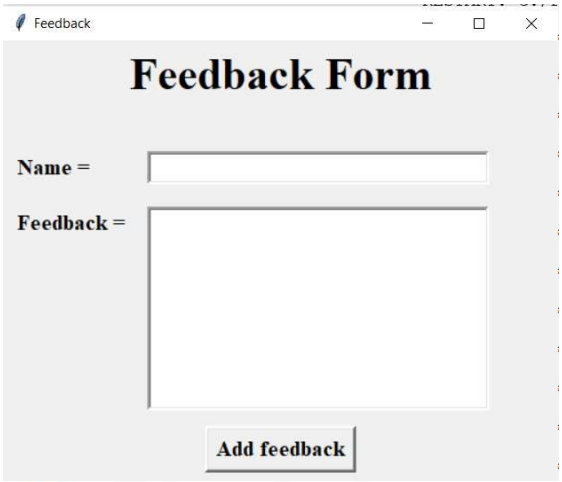
```
Words after spliting in line 3 :  ['div', 'B', 'rollno', '43'] Number
of lines:
3
Number of words:
16
Number of Character including white spaces
73

-----------------------------------------------
Menu
 (A) append data to existing file and then display the entire file
(B) count the number of lines, words and characters in a file.
 (C) display file available in current directory
 (Q)uit
Enter your choice: c
Current working directory: C:\PARTH PATIL\bruh
. []
exp_8_B.py
prac.py
Sample.txt
Test.txt

-----------------------------------------------
Menu
 (A) append data to existing file and then display the entire file
(B) count the number of lines, words and characters in a file.
 (C) display file available in current directory
 (Q)uit
Enter your choice: q
```

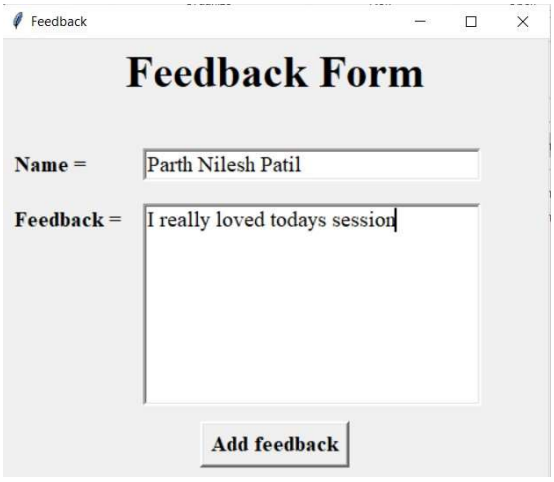
Exercise

1.Create a GUI form for name and feedback.Store the name and feedback into file using Python file handling.

Program:

Output:

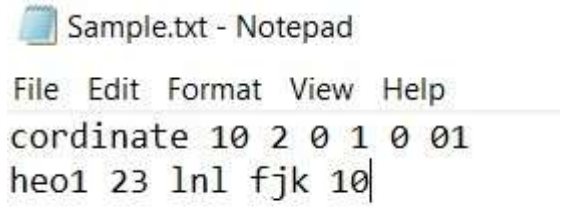




2.Python program to read a text file and print all the numbers present in the text file.

Program:

Output:

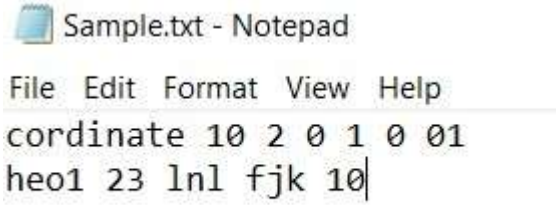



```
================== RESTART: C:/PARTH PATIL/bruh/exp_8_exer2.py =
Numbers found in the file:
10
2
0
1
0
01
23
10
```

3.Python program to count the number of blank spaces in a text file.

Program:

Output:




```
========== RESTART: C:/PARTH PATIL/bruh/exp_8_exer3.py =
Number of blank spaces in the file: 10
```

Conclusion :

Here we learned how file handling is used in python and to read,write and append from a file using file handling