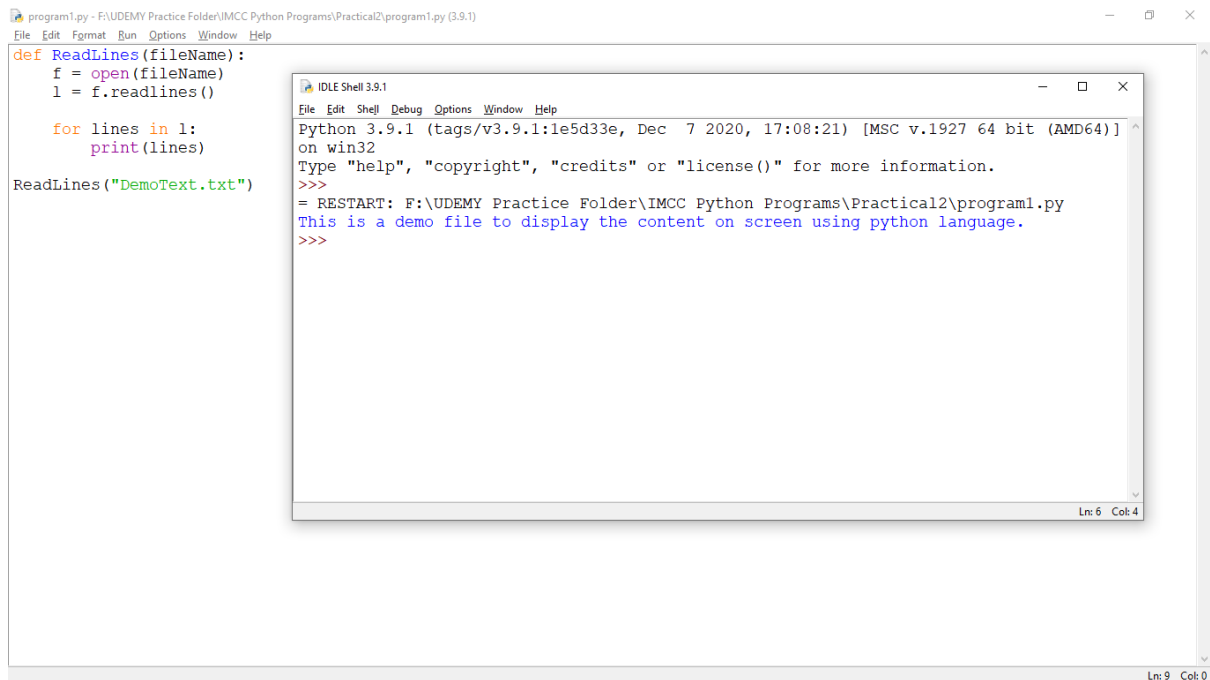


# Kaushik Puntambekar – 1912037

## Practical 2

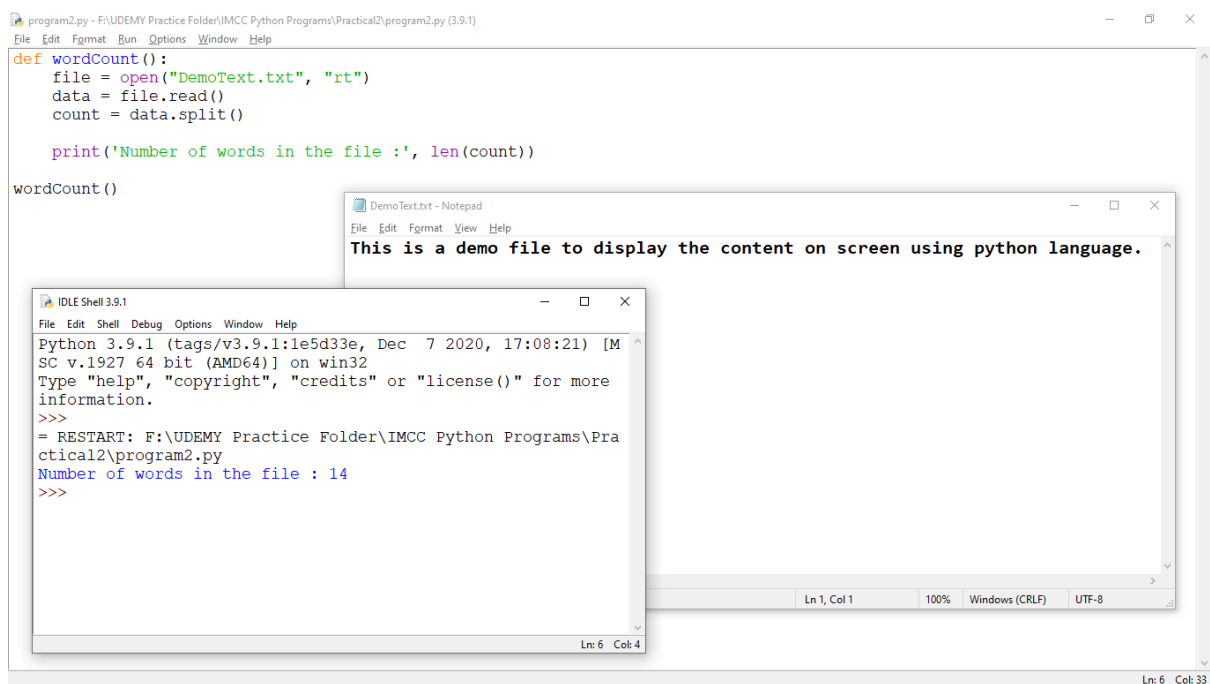
- 1) Write a function in python to read the content from a text file line by line and display the same on screen.



The screenshot shows a Python IDE window titled 'program1.py - F:\UDEMY Practice Folder\IMCC Python Programs\Practical2\program1.py (3.9.1)'. The code defines a function `ReadLines(fileName)` that opens a file, reads all lines, and prints them. The function is called with `ReadLines("DemoText.txt")`. A separate 'IDLE Shell 3.9.1' window shows the output: 'Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32' followed by the content of 'DemoText.txt': 'This is a demo file to display the content on screen using python language.'

```
def ReadLines(fileName):  
    f = open(fileName)  
    l = f.readlines()  
  
    for lines in l:  
        print(lines)  
  
ReadLines("DemoText.txt")
```

- 2) Write a function in python to count and display the total number of words in a text file.



The screenshot shows a Python IDE window titled 'program2.py - F:\UDEMY Practice Folder\IMCC Python Programs\Practical2\program2.py (3.9.1)'. The code defines a function `wordCount()` that opens 'DemoText.txt' in read mode, reads the data, splits it into words, and prints the count. The function is called with `wordCount()`. A 'DemoText.txt - Notepad' window shows the file content: 'This is a demo file to display the content on screen using python language.' An 'IDLE Shell 3.9.1' window shows the output: 'Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32' followed by 'Number of words in the file : 14'.

```
def wordCount():  
    file = open("DemoText.txt", "rt")  
    data = file.read()  
    count = data.split()  
  
    print('Number of words in the file :', len(count))  
  
wordCount()
```

- 3) Write a function in python to read lines from a text file and function should find and display the occurrence of the word "Python".

The screenshot shows a Python IDE with three windows. The main window displays a Python script named `program3.py` with the following code:

```
def occurrenceWords():  
    file = open("DemoText.txt", "rt")  
    data = file.read()  
    occurrences = data.count("python")  
  
    print("No of times python occurred : ", occurrences)  
  
occurrenceWords()
```

A Notepad window titled "DemoText.txt - Notepad" shows the content of the text file:

This is a demo file to display the content on screen using python language.

An IDLE Shell window shows the execution output:

```
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927  
64 bit (AMD64)] on win32  
Type "help", "copyright", "credits  
" or "license()" for more informat  
ion.  
>>>  
= RESTART: F:\UDEMY Practice Folde  
r\IMCC Python Programs\Practical2\  
program3.py  
No of times python occurred : 1  
>>>
```

- 4) Write a function `display_words()` in python to read lines from a text file, and display those words, which are less than 4 characters.

The screenshot shows a Python IDE with a script named `program4.py` containing the following code:

```
def display_words():  
    count = 0  
    file = open("DemoText.txt", "r")  
    lines = file.read()  
    word = lines.split()  
  
    for words in word:  
        if len(words) < 4:  
            count += 1  
            print(words, end=",")  
  
    print()  
    print("Total number of words having characters less than 4 are : ", count)  
  
display_words()
```

An IDLE Shell window shows the execution output:

```
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 6  
4 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information  
.  
>>>  
= RESTART: F:\UDEMY Practice Folder\IMCC Python Programs\Practical2/pro  
gram4.py  
is,a,to,the,on,  
Total number of words having characters less than 4 are : 5  
>>> |
```

- 5) Write a function in Python to count words in a text file those are ending with alphabet “e”.



The screenshot shows a Python IDE with a file named `program5.py`. The code defines a function `lastAlphabet()` that counts words ending with 'e' in a file named `DemoText.txt`. The function reads the file line by line, splits each line into words, and checks if the last character of each word is 'e'. If it is, the count is incremented. The function then prints the count for each line. The output of the function is shown in the IDLE Shell window, which displays the following text:

```
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: F:\UDEMY Practice Folder\IMCC Python Programs\Practical2\program5.py
Words ending with 'e' : 1
Words ending with 'e' : 2
>>>
```

- 6) Write a function to search and display details of student whose rollno is ‘11’ from the binary file `student.dat` having structure[rollno, name, class and fees].

```
import pickle
```

```
filename = "student.dat"
```

```
file = open(filename, "wb")
```

```
data=[{
    'rollno':101,
    'name':'Aditya',
    'class':'MCA',
    'fees':12445},
    {'rollno':102,
    'name':'Rajesh',
    'class':'MBA',
    'fees':124453},
```

```
{'rollno':103,  
'name':'Sahil',  
'class':'Temp',  
'fees':34556},
```

```
{'rollno':104,  
'name':'Reema',  
'class':'MCA',  
'fees':67445}
```

```
]
```

```
pickle.dump(data, file)
```

```
file.close()
```

```
print("Success")
```

```
infile = open(filename, 'rb')
```

```
dictlist = pickle.load(infile)
```

```
infile.close()
```

```
for dict1 in dictlist:
```

```
    if(dict1["rollno"] == 11):
```

```
        print("Student with Roll no 11 is => , Name : {} | Class : {} | Fees{}"
```

```
              .format((dict1["name"]), (dict1["class"]), dict1["fees"])))
```

- 7) Write a function to search and display details of student whose rollno is '11' from the binary file student.dat having structure[rollno, name, class and fees].

8) Write a program to read line number 4 from the following file

Line1

Line2

Line3

Line4

Line5

Line6

The screenshot shows a Python IDE window titled 'program8.py - F:/UDEMY Practice Folder/IMCC Python Programs/Practical2/program8.py (3.9.1)'. The code in the editor is as follows:

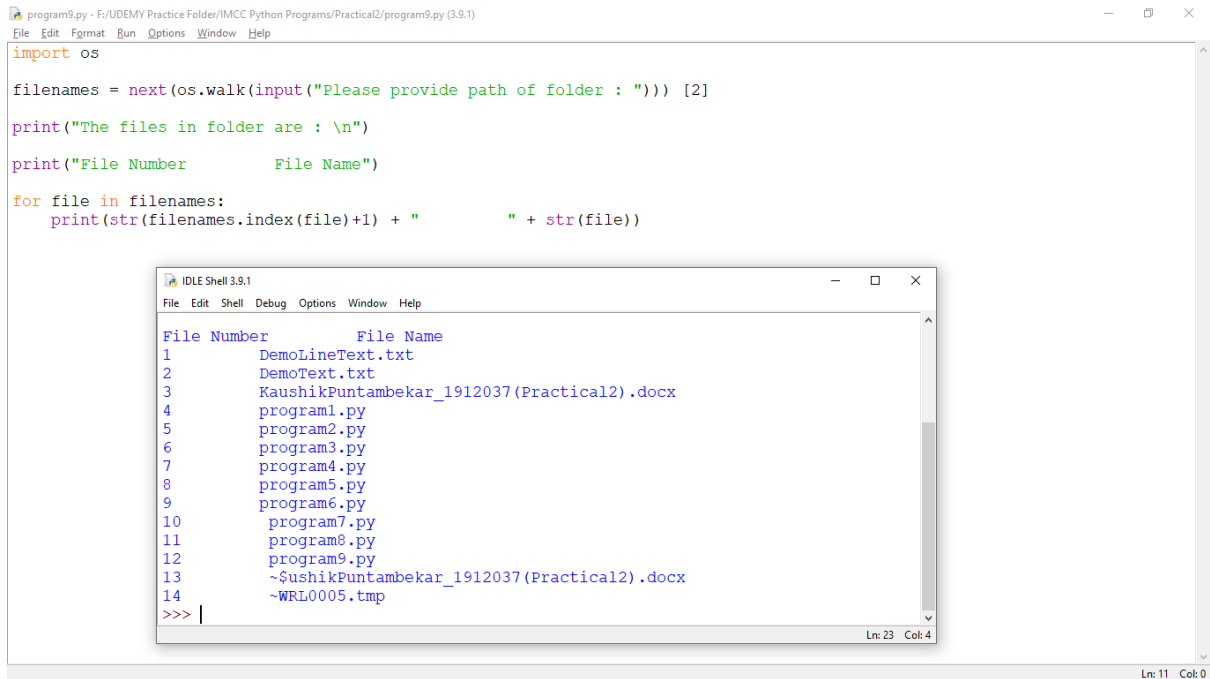
```
def findTheLine(lineNo):  
    file = open("Program8.txt")  
    lines = file.readlines()  
    print(lines[lineNo-1])  
  
findTheLine(4)
```

Below the editor, an 'IDLE Shell 3.9.1' window is open, displaying the output of the program. It shows the Python version and architecture, followed by a restart message and the output 'Line4'.

```
IDLE Shell 3.9.1  
File Edit Shell Debug Options Window Help  
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD  
64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: F:/UDEMY Practice Folder/IMCC Python Programs/Practical2/program8.py  
Line4  
>>> |
```

The status bar at the bottom of the IDE shows 'Ln: 6 Col: 13'.

- 9) Write a program to accept the folder name from user and print the list of files and folders from the given folder.



The screenshot shows a Python IDE window titled 'program9.py - F:/UDEMY Practice Folder/IMCC Python Programs/Practical2/program9.py (3.9.1)'. The code in the editor is as follows:

```
import os

filenames = next(os.walk(input("Please provide path of folder : "))) [2]

print("The files in folder are : \n")

print("File Number      File Name")

for file in filenames:
    print(str(filenames.index(file)+1) + "      " + str(file))
```

Below the editor, an 'IDLE Shell 3.9.1' window displays the output of the program. It shows a table with two columns: 'File Number' and 'File Name'. The output lists 14 files and folders, including 'DemoLineText.txt', 'DemoText.txt', 'KaushikPuntambekar\_1912037(Practical2).docx', and several 'program' files. The shell window also shows the prompt '>>>' and the current cursor position 'Ln: 23 Col: 4'.

- 10) Write a program to copy the content of .jpg file into another file.



The screenshot shows a Python IDE window titled 'program10.py - F:/UDEMY Practice Folder/IMCC Python Programs/Practical2/program10.py (3.9.1)'. The code in the editor is as follows:

```
firstfile = open('pc-wallpapers-1.jpg', 'rb')
secondfile = open('new.jpg', 'wb')

for line in firstfile:
    secondfile.write(line)

print("File copied")
```

The IDE window shows the code and the current cursor position 'Ln: 8 Col: 0'.

