Finolex Academy of Management and Technology, Ratnagiri

Department of Information Technology

Subject:	**Python Lab. (ITL404)**
Class:	**SE IT / Semester – IV (Rev-2016) / Academic year: 2017-18**
Name of Student:	**Kazi Jawwad A Rahim**

Roll No:	**28**	**Date of performance (DOP) :**	
Assignment/Experiment No:	**11**	**Date of checking (DOC) :**	

Title: Program to demonstrate file handling in Python.

Marks:		**Teacher's Signature:**	

1. Aim: To understand how to create, read, write and append text as well as binary files in Python.

2. Prerequisites:
1. Basics of Python programming

3. Hardware Requirements:
1. PC with minimum 2GB RAM

4. Software Requirements:
1. Windows / Linux OS.
2. Python 3.6 or higher

5. Learning Objectives:
1. To understand the basic concept of file in Python.
2. To understand the meaning of opening and closing the files.
3. To understand how to perform text as well as binary file I/O in Python.

6. Learning Objectives Applicable: LO 4

7. Program Outcomes Applicable: PO5, PO7, PO9, PSO1, PSO2

8. Program Education Objectives Applicable: PEO1, PEO5, PEO6

JK.txt
Name: Kazi Jawwad Abdul Rahim

Sample.txt
This is Jawwad Kazi
Ratnagiri Kolhapur Mumbai Pune

famt.jpg

SOURCE CODE:

```
print("Demonstration of file handling")
f=open("JK.txt","rt")
fo=open("out1.txt","w")
print("Reading file character by character")
while True:
    s=f.read(1)
    fo.write(s)
    if s=="":
        break
    print(s)
f.close()
fo.close()
f=open("JK.txt","rt")
fo=open("out2.txt","w")
print("\nReading file line by line")
while True:
    s=f.readline()
    fo.writelines(s)
    if s=="":
        break
    print(s)
f.close()
fo.close()
f=open("JK.txt","rt")
fo=open("out3.txt","w")
print("\nReading file at once")
s=f.readlines()
fo.writelines(s)
print(s)
f.close()
```

```
fo.close()
print("\n\nDemonstration of append mode")
f=open("sample.txt","a")
f.write("This is the additional text")
f.close
j=open("sample.txt","r")
s=j.read()
print(s)
j.close()
print("\n\nDemonstration of binary mode")
k=open("famt.jpg","rb")
f=open("NewBinary.jpg","wb")
s=k.read()
f.write(s)
k.close()
f.close()
```

OUTPUT:
Demonstration of file handling
Reading file character by character
N
a
m
e
:

K
a
z
i

J
a
w
w
a
d

A
b
d
u
l

R
a
h
i

m

Reading file line by line
Name: Kazi Jawwad Abdul Rahim

Reading file at once
['Name: Kazi Jawwad Abdul Rahim']

Demonstration of append mode
This is Jawwad Kazi
Ratnagiri Kolhapur Mumbai Pune This is the additional text

Demonstration of binary mode

out1.txt
Name: Kazi Jawwad Abdul Rahim

out2.txt
Name: Kazi Jawwad Abdul Rahim

out3.txt
Name: Kazi Jawwad Abdul Rahim

NewBinary.jpg

Learning Outcomes Achieved:
1. Understood the basic concept of file in Python.
2. Understood the meaning of opening and closing the files.
3. Understood how to perform text as well as binary file I/O in Python.

Conclusion:

Thus, we have studied File Handling in Python.

13. Experiment/Assignment Evaluation

SR	Parameters	Weight	Excellent	Good	Average	Poor	Not as per requirement
		Scale Factor ->	5	4	3	2	0
1	Technical Understanding	25					
2	Performance / Execution	25					
3	Question Answers	20					
4	Punctuality	20					
5	Presentation	10					
	Total out of 40 --> #(to be converted as per term-work evaluation applicable to the subject)		∑ (Weight * Scale Factor)*4/50 = …….. / 40				

References:

[1]   James Payne, "Beginning Python using Python 2.6 and Python 3.1", Wrox Publications.
[2]   Dr. R. Nageswara Rao, "Core Python Programming", Dreamtech Press, Wiley Publications.
[3]   Charles R. Severance "Python for Everybody: Exploring Data in Python 3"

Viva Questions

1. What is file, and why is it important in Information technology?
2. What are different file formats?
3. What are different modes of file operations?
4. What is difference between readline() and readlines() functions?
5. Which function is used to read entire file contents?
6. Explain writelines() function?
7. What is binary file I/O? Why is it required?