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# Fr. C. RODRIGUES INSTITUTE OF TECHNOLOGY

### **DEPARTMENT: COMPUTER ENGINEERING**

### **LABORATORY CONTINUOUS ASSESSMENT FORMAT**

Second Half of 2020

Course Name: Skill Based Lab

Name of the Teacher: Prof. Suvarna Bhatsangave

Name of the Student: Aakash Vikas Yadav

**Roll No: 1019167** Semester: **IV** 

Batch: 2 Practical No: 3

Date of Practical: 17/03/2021 Date of Report Submission: 22/03/2021

Title:

Implement Python Program to demonstrate File handling.

#### **Course Outcome:**

To explore contents of files, directories and text processing with python.

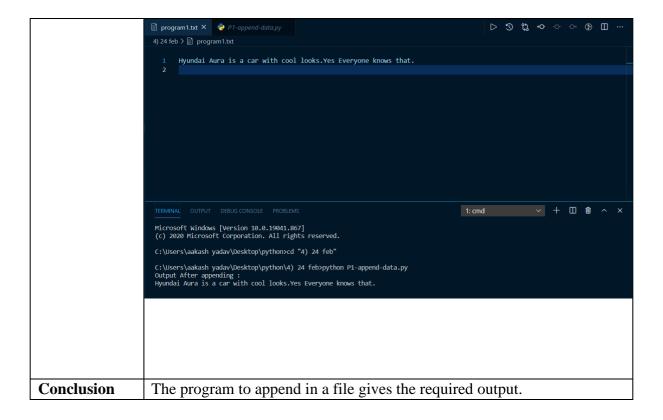
#### **ASSESSMENT**

Sr. No.	Parameter for Assessment	Marks	Rubrics		
1.	Practical Performance / Active Participation (03Marks)		Above Average (03)	Average (02)	Below Average (01)
2.	Report Presentation (02 Marks)		Above Average (02)	Average (01)	Below Average (00)
3.	Understanding (03 Marks)		Above Average (03)	Average (02)	Below Average (01)
4.	Regularity in Submission (02 Marks)		Timely (02)	Late (01) (≤ 2 Weeks from the date of Practical)	Very Late (00) (> 2 Weeks from the date of Practical)

Total	l M	[ar]	ks (	10	):

Teacher's Signature: Date:

<b>Experiment-2</b>	Implement Python Program to demonstrate File handling.
CO	
	To explore contents of files, directories and text processing with python.
Title	Python program to append data to existing file and then display the entire file.
Theory	While reading or writing to a file, access mode governs the type of operations possible in the opened file. It refers to how the file will be used once it's opened. These modes also define the location of the File Handle in the file. File handle is like a cursor, which defines from where the data has to be read or written in the file.  In order to append a new line to the existing file, open the file in append mode, by using either 'a' or 'a+' as the access mode. The
	Append Only ('a'): Open the file for writing. The file is created if it does not exist. The handle is positioned at the end of the file. The data being written will be inserted at the end, after the existing data.  Append and Read ('a+'): Open the file for reading and writing. The file is created if it does not exist. The handle is positioned at the end of the file. The data being written will be inserted at the end, after the existing data.  When the file is opened in append mode, the handle is positioned at the end of the file. The data being written will be inserted at the end, after the existing data.
Program	<pre>import os  # Append-adds at Last file1 = open("program1.txt", "a") # append mode file1.write("Yes Everyone knows that.\n") file1.close()  file1 = open("program1.txt", "r") print("Output After appending :") print(file1.read()) print() file1.close()</pre> OUTPUT



Experiment-2	Implement Python Program to demonstrate File handling.		
СО	To explore contents of files, directories and text processing with python.		
Title	Python program to count number of lines, words and characters in a file		
Theory	Given a text file fname, the task is to count the total number of characters, words, spaces and lines in the file.  As we know, Python provides multiple in-built features and modules for handling files. Let's discuss different ways to calculate total number of characters, words, spaces and lines in a file using Python.  In this approach, the idea is to use the os.linesep() method of OS module to separate the lines on the current platform. When the interpreter's scanner encounter os.linesep it replaces it with \n character. After that strip() and split() functions will be used to carry out the task.  Below is the implementation of the above approach.		

```
import os
Program
                            fname = "program2.txt"
                            num_lines = 0
                            num_words = 0
                            num_chars = 0
                            with open(fname, 'r') as f:
                                    for line in f:
                                            words = line.split()
                                            num lines += 1
                                             num_words += len(words)
                                             num_chars += len(line)
                            print("Lines :", num_lines)
                            print("Words :", num_words)
                            print("Chars :", num_chars)
                            OUTPUT
                                                                                                           4) 24 feb > 🖹 program2.txt
                                   torem ipsum, dolor sit amet consectetur adipisicing elit.

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                                                                                                    Microsoft Windows [Version 10.0.19041.867]
(c) 2020 Microsoft Corporation. All rights reserved.
                               C:\Users\aakash yadav\Desktop\python>cd "4) 24 feb"
                               C:\Users\aakash yadav\Desktop\python\4) 24 feb>python P1-append-data.py
Output After appending :
Hyundai Aura is a car with cool looks.Yes Everyone knows that.
                               C:\Users\aakash yadav\Desktop\python\4) Z4 feb>python P2-count-char-etc.py Lines : 4 levers : 45 Chars : 359
Conclusion
                              The program to count number of lines, words and characters in a file gives
                              the required output.
```

<b>Experiment-2</b>	Implement Python Program to demonstrate File handling.		
CO	To explore contents of files, directories and text processing with python.		
Title	Python program to display file available in current directory.		
Theory	Python's os module provides a function that gets a list of files or folders in a directory. The ., which is passed as an argument to os.listdir(), signifies the current folder.  To list files at a specific path, we can simply give the path as		
	a string to the function.		
	This path will have to be relative to where your Python file is placed or, if you're not working with files, the path will be relative to where your Python Shell has been launched:		
	<pre>st_dirs = os.listdir('C:/Users/aakash yadav/Desktop/python/ 4 feb') r i in list_dirs:   print(i)</pre>		
	OUTPUT		
	OUTPUT  SPROUGE		
	P3 fint fleesy X		
	P3 flat fleesy X		

<b>Experiment-2</b>	Implement	Puthon Program to demonstrate File handling	
CO Experiment-2	Implement Python Program to demonstrate File handling.		
CO	To explore contents of files, directories and text processing with python.		
Title	Python program for regex expression.		
forms a search pattern.		Ex can be used to check if a string contains the specified och pattern.	
	findall	Returns a list containing all matches	
	search	Returns a Match object if there is a match anywhere in the string	
	split	Returns a list where the string has been split at each match	
	sub	Replaces one or many matches with a string	
Program	import re		
	<pre># todo search() string_input = "all are smart here" ans = re.search("smart", string_input) print("The position of smart is :", ans.start())  # todo split() list_input_string = re.split("\s", string_input) print("\nAfter the split() : \n", list_input_string)  # todo sub() new_input_string = re.sub("\s", "-", string_input) print("\nAfter the sub() :\n", new_input_string)  # todo findall() times = re.findall("\s", string_input) print("\nThe no of times space occured is : ", len(times))</pre>		
	<pre>print("")  check = "c reg = re.f if len(reg     print(  reg=re.fin if len(reg     print(</pre>	"\nyes best or good is present") dall("best\$",check)	

