



Experiment 3.3

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Branch: CSE Section/Group:607A

Semester: 4th Date of Performance: 28/04/2022

Subject Name:Programming in Python Lab Subject Code: 22E-20CSP-259

1) Aim/Overview of the practical:

Q1. Write a Python program to generate 26 text files named A.txt, B.txt, and so on up to Z.txt

2) Task to be done/ Which logistics used:

To write a python program to generate 26 text files named A.txt, B.txt, and so on up to Z.txt

3) Algorithm/Flowchart (For programming based labs):





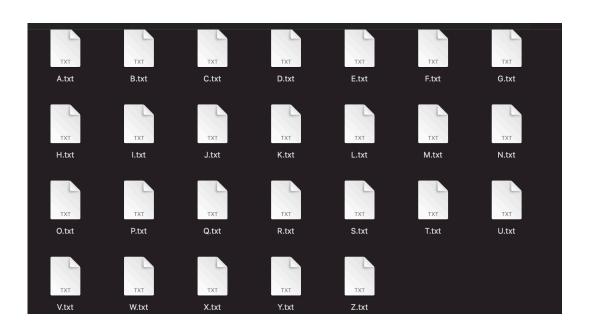


4) Steps for experiment/practical/Code:

```
import string, os
if not os.path.exists("letters"):
    os.makedirs("letters")
for letter in string.ascii_uppercase:
    with open(letter + ".txt", "w") as f:
    f.writelines(letter)
```











- 1) Aim/Overview of the practical:
- Q2. Write a Python program to create a file where all letters of English alphabet are listed by specified number of letters on each line
- 2) Task to be done/ Which logistics used:

To write a python program to create a file where all letters of English alphabet are listed by specified number of letters on each line

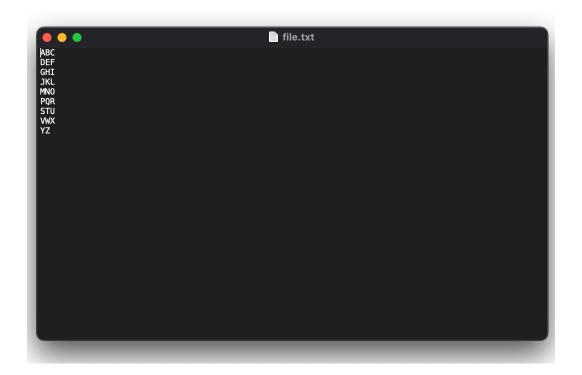
- 3) Algorithm/Flowchart (For programming based labs):
- 4) Steps for experiment/practical/Code:

```
import string
def letters_file_line(n):
    with open("file.txt", "w") as f:
        alphabet = string.ascii_uppercase
        letters = [alphabet[i:i + n] + "\n" for i in range(0, len(alphabet), n)]
        f.writelines(letters)
letters_file_line(3)
```













- 1) Aim/Overview of the practical:
- Q3. Write a Python program to read a random line from a file.
- 2) Task to be done/ Which logistics used:

To write program to read a random line from a file.

- 3) Algorithm/Flowchart (For programming based labs):
- 4) Steps for experiment/practical/Code:

```
exp3.3Q3.py - /Users/rajivpaul/Documents/python_programs/exp3.3Q3.py (3....
import random
def random_line(fname):
    lines = open(fname).read().splitlines()
    return random.choice(lines)
print(random_line('git.txt'))
```





git.txt file used for the program:















- 1) Aim/Overview of the practical:
- Q4. Write a Python program to count the frequency of words in a file.
- 2) Task to be done/ Which logistics used:

To write a python program to count the frequency of words in a file.

- 3) Algorithm/Flowchart (For programming based labs):
- 4) Steps for experiment/practical/Code:

```
exp3.3Q4.py - /Users/rajivpaul/Documents/python_programs/exp3.3Q4.py (3....

from collections import Counter
def wordscount(fname):
    with open(fname) as f:
        return Counter(f.read().split())

print("Number of words in the file :\n",wordscount("git.txt"))
```







git.txt file used for the program:













- 1) Aim/Overview of the practical:
- Q5. Write a Python program to copy the contents of a file to another file.
- 2) Task to be done/ Which logistics used:

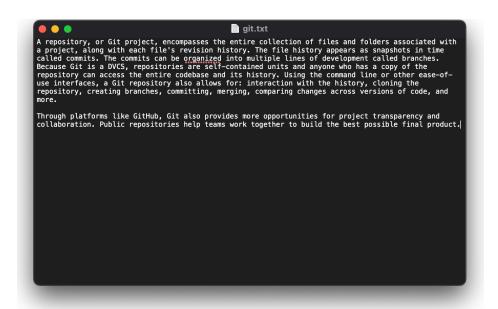
To write a python program to copy the contents of a file to another file.

- 3) Algorithm/Flowchart (For programming based labs):
- 4) Steps for experiment/practical/Code:

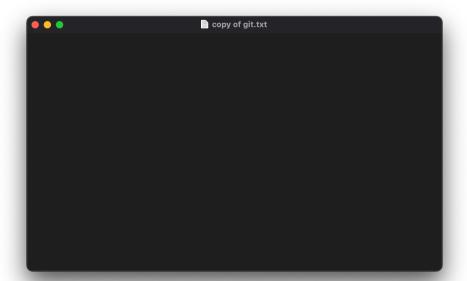




git.txt file used for the program:



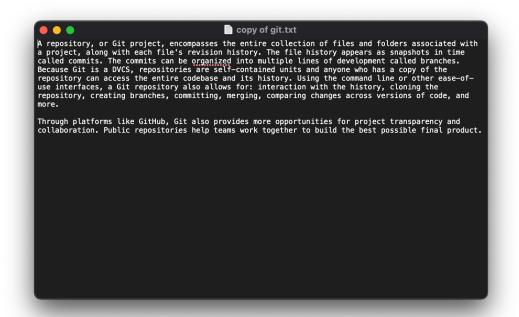
copy of git.txt file used for the program:

















Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Parameters	Marks Obtained	Maximum Marks
	Parameters	Parameters Marks Obtained

