Python assignment3

Name - Essamaraju Sasi kiran Roll No - 20075031 Batch id - BA 1

1. Write python program to read the entire test.txt file.

2. Write python program to read first "n" lines of a file.

```
# reading first n lines of a file.

2  n = int(input("How many lines u wanna read "))

3  with open('test.txt') as f:

4     for i in range(n):

5         line = f.readline()
         print(line, end="")

How many lines u wanna read 3
What is Python language?
Python is a widely used high-level, general-purpose, interpreted, dynamic programming language.
ge.Its design philosophy emphasizes code readability, and its syntax allows programmers to ess xpress concepts in fewer lines of code than possible in languages such as C++ or Java.
PS E:\pythonfiles>
```

3. Write python program to append text to a file and display the text.

```
demo.py x

1 with open('myfile.txt', 'a') as f:
2    f.write("\nThis is ITW1 class")
3
4 with open('myfile.txt') as f:
5    print(f.read())
6

Hello Everyone !
This is ITW1 class
[Finished in 81ms]
```

4. Write python program to read last "n" lines of a file.

5. Write python program to remove an empty tuple(s) from a list of tuples

6. Write python program to count the number of lines in a text file.

7. Write python program to count the frequency of words in a file.

8. Write python program to get the file size of a text file in bytes.

```
demo.py x

import os

fileSize = os.path.getsize('test.txt')

print("file size in bytes of 'test.txt' is", fileSize)

file size in bytes of 'test.txt' is 767
[Finished in 76ms]
```

9. Write python program to write a list content to a file.

```
demo.py
     colors = input("Enter the list of colors -").split()
  1
     with open('myfile.txt', 'w') as f:
         for color in colors:
             f.write(color + '\n')
     with open('myfile.txt') as f:
         print("Displaying myfile.txt")
         print(f.read())
PS E:\pythonfiles> python demo.py
Enter the list of colors -Red Green White Black Pink Yellow
Displaying myfile.txt
Red
Green
White
Black
Pink
Yellow
PS E:\pythonfiles>
```

10. Write python program to combine each line from first file with the corresponding line in second file.

```
demo.py x

1 with open('file1.txt') as f1, open('file2.txt') as f2:
2     content1 = f1.readlines()
3     content2 = f2.readlines()

4     for line1, line2 in zip(content1, content2):
        print(line1.rstrip())
7     print(line2.rstrip())
8

Python exercises
Red
Java exercises
Green
[Finished in 79ms]
```

11. Write python program to read a random line from a file.

```
demo.py x

1 with open('test.txt') as f:
2    content = f.readlines()
3
4    import random
5    randomLine = random.choice(content)
6    print(randomLine.rstrip())

What is Python language?
[Finished in 86ms]
```

12. Write python program that accepts sequence of lines as input and prints the lines after making all characters in the sentence capitalized.

```
demo.py  x

1 lines = []
2 while True:
3     line = input()
4     if line:
5         lines.append(line.upper())
6     else:
7         break
8 for line in lines:
9     print(line)

PS E:\pythonfiles> python demo.py
hello everyone
practice makes perfect

HELLO EVERYONE
PRACTICE MAKES PERFECT
PS E:\pythonfiles>
```

13. Write python code to split the word from the input file.

- 14. Write python code to find the current working directory also do the following operations:
- A. creating a new directory.
- B. create a new text file in the new directory.
- C. delete the new directory

```
demo.py
     import os
     import shutil
     print("Current working directory is", os.getcwd())
     os.mkdir('newdir')
     print("'newdir' is created")
     with open('newdir/myfile.txt', 'w') as f:
         print("'myfile' is created in 'newdir'")
         f.write("this file is in 'newdir' directory")
10
11
     shutil.rmtree('newdir')
     print("'newdir' is removed")
12
13
Current working directory is E:\pythonfiles
'newdir' is created
'myfile' is created in 'newdir'
'newdir' is removed
[Finished in 130ms]
```