Assignment-3

Note: Content of the file test.txt is provided at the bottom of the assignment.

1. Write a Python program to read an entire text file.
    Input: test.txt
    Output: Contect of file test.txt *i.e. What is Python language?*
    *Python is a widely used high-level, general-purpose, interpreted, dynamic programming
    language.Its design philosophy emphasizes code readability, and its syntax allows programmers to
    express concepts in fewer lines of code than possible in
    languages such as C++ or Java.*

2. Write a Python program to read first n lines of a file.
    Input: test.txt
    Output: *What is Python language?*
    *Python is a widely used high-level, general-purpose, interpreted, dynamic programming
    language.Its design philosophy emphasizes code readability, and its syntax allows programmers to
    express concepts in fewer lines of code than possible in*

3. Write a Python program to append text to a file and display the text.
    Input: Content of myfile.txt *i.e.* Hello everyone !
    Output: Hello everyone !
           This is ITW1 class.

4. Write a Python program to read last n lines of a file.
    Input: Content of text.txt
    Output: *languages such as C++ or Java. (last line)*

5. Write a Python program to remove an empty tuple(s) from a list of tuples
    Input: Contect of file test.txt
    Output: ['general-purpose,', 'object-oriented,']

6. Write a Python program to count the number of lines in a text file.
    Input: Content of test.txt
    Output: Number of lines in the file: 4

7. Write a Python program to count the frequency of words in a file.
    Input: Contect of file text.txt
    Output: Number of words in the file : Counter({'and': 6, 'a': 3, 'Python': 3, 'is': 3, ... })

8. Write a Python program to get the file size of a text file in bytes.
    Input: test.txt
    Output: File size in bytes of a file test.txt is: 765

9. Write a Python program to write a list content to a file.
    Input: color = ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']
    Output: Red
           Green
           White
           Black
           Pink
           Yellow

10. Write a Python program to combine each line from first file with the corresponding line in second
    file.
    Example: Input: Content of text file1 *i.e.,* (Python Exercises, Java Exercises) and Content of text
    file_2 *i.e.,* (Red, Green)

Output: Python Exercises
Red
Java Exercises
Green

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

Example : Input: Content of file test.txt

Output: languages such as C++ or Java.

12. Write a program that accepts sequence of lines as input and prints the lines after making all characters in the sentence capitalized.
Example: Input: Hello everyone
Practice makes perfect
Output: HELLO EVERYONE
PRACTICE MAKES PERFECT

13. Write a python code to split the word from the input file.
Example: Input: Python Exercises
Java Exercises
Output: ['Python', 'Exercises']
['Java', 'Exercises']

14. Write a 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.
Example: My current working directory: '/home/randheer/ML/File input-output'
A. Create a new folder in my current working directory named as "newdir"
B. In newdir, write a text file as "myfile.txt"
C. Delete the "newdir"

File: test.txt

What is Python language?

Python is a widely used high-level, general-purpose, interpreted, dynamic programming language.Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than possible in

languages such as C++ or Java.

Python supports multiple programming paradigms, including object-oriented, imperative and functional programming or procedural styles. It features a dynamic type system and automatic memory management and has a large and comprehensive standard library.The best way we learn anything is by practice and exercise questions. We have started this section for those (beginner to intermediate) who are familiar with Python.