

Assignment-3

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

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

Input: test.txt

Output: Content 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. (till last line)

2. Write 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 languages such as C++ or Java.

Note: Here the value of “n” is consider as 3.

3. Write 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 python program to read last “n” lines of a file.

Input: Content of test.txt

Output: languages such as C++ or Java. (till last line)

Note: Here the value of “n” is consider as 2.

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

Input: Content of file test.txt

Output: ['general-purpose,', 'object-oriented,']

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

Input: Content of file test.txt

Output: Number of words in the file : Counter({'and': 6, 'a': 3, 'Python': 3, 'is': 3, ... })

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

Example: Input: Python Exercises

Java Exercises

Output: ['Python', 'Exercises']

['Java', 'Exercises']

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.

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.