

COMPUTER SCIENCE XII(083)

DATA FILE HANDLING

ASSIGNMENT #1

1. Write a Python program to read an entire text file.
2. Write a Python program to read first n lines of a file.
3. Write a Python program to read a file line by line and store it into a list.
4. Write Python code for performing following tasks:
 - (i) Write a function to create a text file containing following data:

Neither apple nor pine is in pineapple.
Boxing rings are square.
Writers write, but fingers don't fling.
Overlook and oversee are opposites.
A house can burn up as it burns down.
An alarm goes off by going on.
 - (ii) Read back the entire file content using read() and display on the screen.
 - (iii) Read the entire file using readline () and display on screen.
 - (iv) Read the entire file using readlines() and display on the screen.
 - (v) Append more text of your choice in the file.
 - (vi) Display the content of file with line numbers prefixed to line.
 - (vii) Display last line of file.
 - (viii) Display first line from 10th character onwards.
 - (ix) Display first 10 characters of the first line.
 - (x) Ask user to provide the line number to be read. Read that line from the file and display it on screen
5. Write a program in Python to print the longest word after reading the contents of the file.
6. Write a program in Python to print the longest line after reading the contents of the file.
7. A text file named MATTER.TXT contains some text, which needs to be displayed such that every next character is separated by symbol '#'.
8. Write a Python program to count the frequency of a word in a file.
9. Write a program to display the number of lines in a file.
10. Write a program to display the size of a file in bytes.
11. Write a program to count the number of spaces, digits, lines, alphabets and special characters in a file.
12. Write a program to input 10 names of your friends in a list and store them in a file.
13. Write a program to store first 20 natural numbers in a text file.
14. Write a program to input multiple lines of text and write into a text file.
15. (a) Write a program to input roll number, names, and marks of 5 students and store these details in a file "Marks.txt"
(b) Write a program to add two more details to the above file.
16. Write a program to copy the contents of a file "Notes.txt" into a file "Subject.txt"
17. Write a program to copy only the lines which start with capital letters from one file to another.
18. Write a function in Python to read the content of a text file "DELHI.TXT" and display all those lines on screen, which are Either starting with 'D' or starting with 'M'
19. Write a program to count the number of words ending with letter 's' in the text file "INDIA.TXT". If the word ended with letter s and a full stop, then it will be counted as a word ending with 's'.

20. Write a function in Python to count the number of “Me” or “My” words present in a text file “DIARY.TXT”.

If the file “DIARY.TXT” content is as follows:

My first book was Me and My family. It gave me chance to be known to the world.

The output of the function should be Count of

Me/ My in file : 3

21. Write a function in Python to count and display the number of lines starting with alphabet ‘A’ present in a text file “LINES.TXT”.

Example: If the file “LINES.TXT” contains the following lines,

A boy is playing there.

There is a playground.

An aeroplane is in the sky.

Alphabets and numbers are allowed in the password.

The function should display the output as 3.

22. Assume that a text file named “TEXT1.TXT” already contains some text into it. Write a function named vowelwords() that reads the file TEXT1.TXT to count number of words in the file and create a new file named “TEXT2.TXT” which contain only those words from the file TEXT1.TXT which don’t start with upper case vowel (i.e A, E, I, O ,U).
23. Write a program to read the content from a text file “Dictionary.txt” and count the number of words having a length more than 5 letters in them. Assume that each word is separated from other with single space.