

Output :

Student Records :-

Aline 35

Bob 90

Charlie 78

Up dated Student Records:-

Alince 85

Bob 90

David 88

Implement various text file operation

3.0.25

6.0.a Student Record file Handling

Aim:- To write a python program that creates a student record file , stores names with marks, reads and display all records, and append new student data.

Algorithm :-

1. Start the program
2. Open a text file in write mode and store student names with their marks.
3. Close the file
4. Open the file read mode and display all student records.
5. Open the file in append mode to add new student data
6. Close the file
7. Re-open in read mode and display the updated records
8. Stop the program

Program :

#Student Record file Handling

#Step 1 : Create and Store Student records

with open ("student.txt", "w") as f:

+, write ("Alice 85\n")

+, write ("Bob 90\n")

+, write ("Charlie 78\n")

#Step 2 : Read and display all student records.

Print ("Student Records:")

with open ("student.txt", "r") as f:

Print f(f.read())

#Step 3 : Append new student record with open
(Students. txt", "a" /as f:
f . write ("David 88/n")

#Step 4 : Display updated student records

Print f ("up dated Student Records")

with open ("Student .txt", "r" /as f:

Print (f.read ())

Result:-

The program successfully performed a student record file handling
on the given inputs and display the results.

2020-21 batch 2nd year
Date: 20/01/2021
Time: 10:00 AM
Subject: Python
Topic: Data Structures
Lecture 1
Data Structure
Data Structure is a way of organizing data.
It is a collection of data items
that are in some order and are
organized for a particular purpose.
Data structures are used to store,
process and retrieve data.
Data structures are divided into two
types:
1. Linear Data Structures
2. Non-Linear Data Structures

Output:

Number of lines : 1

Number of words : 4

Number of Characters : 25

word frequency :

hello : 2

world : 1

Python : 1

6.b Text file word Analyzer.

Aim:- To write a python program that read & a text file
Count lines, words, and character & display & the frequency
of each word.

Algorithm:-

1. Start the program
2. Open the text file in read mode.
3. Read the Content & of the file.
4. Count the number of lines, words, and character &.
5. Split the text into words & calculate the frequency of
each word.
6. Display the results.
7. Stop the program.

Program :

```
# Text file word Analyzer
filename = "Sample.txt"
#Step 1: Read file
while open (filename, "r") as f:
```

tent = f.read ()

#Step 2: Count lines, words.

Character &

with open (filename, "r") as f:

lines = f.read_lines ()

num - lines = len (lines)

num - words = len (tent.split (,))

num - char & = len (tent).

#Step 3 : word frequency

word - freq = {}

for word in text, split();

word = word.lower().strip(",.;")

word - freq[word] =

word - freq.get(word, 0) + 1

#Step 4 : Display results

Print ("Number of lines:", num_lines)

Print ("Number of word x:", num_wordx)

Print ("Number of characterx :")

num_charx)

Print ("In word frequency :")

for word, freq in word - freq.items():

Print (word, ":", freq)

Result:-

The program successfully performed a text file word analysis on the given input & display the results.

VEL TECH	
EX-1	6
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	16
SIGN WITH DATE	