

Task : 6

Date:
10/9/25

Implement Various Text file Operations in Python

B.T.C.

Aims:-

To develop a python program that deletes a specific line from a text file based on the line number entered by the user.

Algorithm:

- 1) Start
- 2) Define the file name (eg. "Example.txt")
- 3) Ask the user to enter the line number to delete
- 4) Open the file in read mode and read all lines into a list using readlines().
 - Check if the entered line number is valid:
 - If $1 \leq \text{line-number} \leq \text{total-lines}$, go to
 - Otherwise ignore deletion
- 5) Delete the line at position line-number - 1 from
- 6) Open the file in write mode and write the update
- 7) Display a success message
- 8) Stop

Output:-

Example.txt

Apple

Banana

Mango

Orange

After running the program

Apple

Banana

Orange

Line deleted successfully.

Program:

```

file-name = "example.txt"
line-number = int(input("Enter file line number to delete:"))

with open(file-name, "r") as f:
    lines = f.readlines()
    if 1 <= line-number <= len(lines):
        del lines[line-number - 1]
        with open(file-name, "w") as f:
            f.writelines(lines)
print("Line deleted successfully")

```

TASK : 6.2

Ans:-

Write a program to count the number of words in the file.

ALGORITHMS:-

- 1) Open python script file
- 2) Open data.txt file in read mode
- 3) Read all contents of text file in a string data
- 4) Split the all the content in the data above into the words
- 5) Count the number of words using len()

Input :-

file name: data.txt

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Output:-

Number of words in text file : 14

PROGRAMS:-

```
file = open("d:\\data.txt", "r")
data = file.read()
words = data.split()
print ("Number of words in text file:", len(words))
```

TASK : 6.3

Aims:-

Write a program to display the content of a given CSV file.

ALGORITHM:-

- 1, Open python script file.
- 2, import csv , open and read students.csv file
, using csv.reader()
- 3, Use for loop to read all contents
- 4, Print it

Input :-

file name : students.csv

vtuno	name	year
1234	9999	2
4567	bbbb b	3

Output:-

```
[1] vtuno    name    year]
[1] [1234    9999   2']
[1] [4567    bbbb   3']
```

PROGRAMS :-

```
import csv  
reader = csv.reader(open("d:\\Students.csv"))  
for row in reader:  
    print(row)
```

→ ~~for row in reader:
 print(row)~~

→ ~~if len(row) > 1:
 print(row[1])~~

Task 6.4 :-

Ans:-

To develop a Python program that copies the contents of one text file into another file.

ALGORITHM:-

- 1, Start
- 2, Input the source file name
- 3, Input the destination file name
- 4, Open the source file in read mode.
- 5, Open the destination file in write mode.
- 6, Read the entire contents of the source file
- 7, Write the contents into the destination file
- 8, Close both files automatically
- 9, Display a success message
- 10 Stop

Input/ Output:-

Enter the source file name : d:/data.txt
Enter the destination file name : d:/newdata.txt
contents of 'd:/data.txt' copied to 'd:/newdata.txt'
successfully!

PROGRAMS:-

```
source_file = input ("Enter the source file name:")
destination_file = input ("Enter the destination file name:")
with open (source_file, "r") as src:
    with open (destination_file, "w") as dest:
        content = src.read()
        dest.write (content)
```

"Content of '{ source_file }' copied to '{ destination_file }' successfully!"

✓

content	content	content
ssss	pppp	pppp
cccc	aaaa	aaaa
cccc	aaaa	aaaa

Output

```
ssss ssss ssss  
[ 's' 's' 's' ]  
cccc cccc cccc  
[ 'c' 'c' 'c' ]
```

Task - 5 :-

Aims :-

To develop a python program that reads a list of books from file, removes duplicate entries and writes the unique book names into another file.

Algorithm :-

- 1, Start
- 2, Open the file books.txt in read mode
- 3, Read all the lines from the file into a list
- 4, convert the list into a set to remove duplicate
- 5, close the input file
- 6, Open a new file unique_books.txt in write mode
- 7, write all the unique name in this file
- 8, close the output file
- 9, Display the success message
- 10 Stop

Input / Output :-

File: books.txt

Python Programming
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 Data Structures

~~Ans~~

RESULT:-

Thus the python programs are compiled and executed successfully,

VELTECH	
EX No.	6
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
SIGN WITH DATE	

Program:-

```
f = open ("books.txt", "r")
books = set(f.readlines())
f.close()

f = open ("unique-books.txt", "w")
f.write("\n".join(books))
f.close()

print ("Unique book list created")
```

Output :-

3x1-shots:b : small size
stabwun:b : small size
weak:b' at begin 3x1-shots:b' to first
"I will fire"