TASK-6

10/9/25

6.1) Implement of various text files operations

AIM : To develop a python program that deletes a specific line from a test file based on a given line number.

Algorithm:

1. start
2. Define the file name (e.g., "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().
5. Check if the Entered line number is valid:
   - if 1 <= line_number <= total_lines, go to step 6.
   - otherwise, ignore deletion.
6. Delete the line at position line_number-1 from the list.
7. open the file in write mode and write the update list back into the file.
8. Display a success message to the user.
9. stop

Program :

```
file_name = "Example.txt"
line_number = int(input("Enter the 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.write lines(lines)
Print("Line deleted successfully")
```

Output

Example.txt

Apple
Banana
Mango
orange

After running the program (3rd line removed):

Apple
Banana
orange

Line deleted successfully.

6.2

AIM : write a program to count the number of words in the file

Algorithm:

Step 1: open python script file
Step 2: open data.txt file in read mode
Step 3: Read all Contents of text file in a string data
Step 4: Split the all the Content in the data store in the words
Step 5: Count the number of words using len()

INPUT:

File name: data.txt

welcome to pythonExamples.org. Here, you will find python programs for all general use cases.

OUTPUT:

Number of words in text file: 14

Program:

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

6.3

AIM : write a program to display the content of a given csv file

Algorithm

Step 1 : open python script file

step 2 : import csv, open and read students.csv file using .reader()

Step 3 : use for loop to read all Contents.

step 4 : print it.

Input :

File name : students.csv

vtuno	name	year
1234	aaaa	2
4567	bbbb	3

output

['vtuno name year']

['1234 aaaa 2']

['4567 bbbb 3']

Program

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

Aim : To develop a python program that copies the contents of one file to another file.

Algorithm

1. Start the program
2. Input the source file name
3. Input destination file name (new file where Content will be Copied)
4. open the source file in read mode.
5. open the destination file in write mode.
6. Read the Entire Contents into the destination file.
7. write the Contents into the destination file.
8. Close both files automatically
9. Display a success message that the Contents have been Copied.
10. Stop the program.

Input and 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!

Program

```
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)
Print (f"Contents of `{source_file}` Copied to `{destination_file}`
    Successfully! ")
```

Program :

```
f = open ("books. txt", "r")
    books = set (f. readlines ())
    f.close()
f = open ("unique_ books. txt", "w")
f. write lines (books)
f. close ()
Print ("unique book list created.")
```

6.5

AIM : To develop a python program that reads a list of books from a 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 Entries.
5. Close the input file.
6. Open a new file unique_books.txt in write mode.
7. write all unique book names into the file.
8. close the output file.
9. Display the message "unique book list created."
10. stop

Input and output

File: books.txt

Python programming
Data structures
Machine learning
Python programming
Artifical intelligence
Data structures

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	

Result : Thus, the Implementation of various text file operations in python has been verified and Executed successfully.