6.	03/09/25	Implement various text file operations.	15	30/9/25

Output:-

```
Initial student records:
John ,85
Emma, 92
Mike, 78
After adding new student :
John, 85
Emma, 92
Mike, 78
Arjun, 88
```

3/9/25

Task-6: Implement various text file Operations

(a) Student Record File Handling

Aim:-

To create, read, and student records (name and marks) in a text file.

Algorithm:-

1. Create a file and write some student records.
2. Read and display all records from the file.
3. Add new student records to the file.
4. Show the updated records.

Program:-

```
#create file. with student records
with open ("students . txt ", 'w") as f:
    f.write ("John ", 85\n")
    f. write ("Emma , 92\n")
    f.write ("Mike ,78\n")
print(" Initial student records:")
with open ("students . txt ", "r") as f:
    for line in f:
        print (line. strip())
with open ("student .txt", "a") as f:
    f.write ("Arjun , 88\n")
print ("\n After adding new student :")
with open ("students. txt", "r") as f:
    for line in f:
        print (line .strip ())
```

Result:- The program to create a text file with student records, displayed them, add a new student records and show the updated records was successfully executed.

Output:-

```
Enter filename: sample.txt
lines : 3
words: 15
characters :85
word frequency :
hello : 2
world : 1
this : 1
is : 2
a : 1
test : 2
file : 1
for : 1
word : 1
analysis : 1
```

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(b) Text File Word Analyzer

Aim:-

To count lines, words, characters and display word frequency in a text file.

Algorithm:-

1. Ask user the filename.
2. Read the file content
3. Count lines, words, and characters
4. Count how many times each word appears.
5. Display all results.

Program:-

```
Filename = input ("Enter filename :")
with open (file name, "r") as f:
     content = f_read ()
lines = content. split ('\n')
num_lines = len(lines)
words = content. split ()
new- words = len(words)
num = chars = len(content)
word - count = { }
for word in words :
     word = word. lower () _ strip(! .. ! ?:: ")
     if word :
         word - count [word] = word_ count. get (word , 0) +1
print (f "\n Lines : {num_lines} ")
print (f "words: {num_words}")
print (f " characters: {num_chars }")
print ("\n word frequency :")
for word , count in word_ count . items ():
     print (f " {word } : { count} ")
```

VEL TECH - CSE	
EX NO.	6
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	15
SIGN WITH DATE	

30/9/25

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Result:-

The program successfully reads text file, counted lines, words, characters, and displays how many times word appears in text.