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 ("Yadesh, 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 successfully created a text file with student records, displayed them, added a new student, And showed the updated records.

Output:-

Initial student records:

John, 85

EMMa, 92

Mika, 78

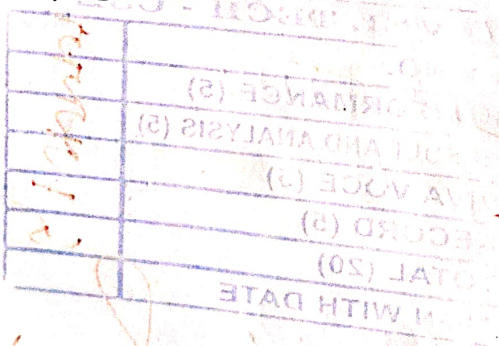
After Adding new student:

John, 85

EMMa, 92

Mika, 78

Radesh, 88.



OUTPUT:-

Enter filename = sample.txt

lines : 3

words : 15

characters : 85

words frequency:

hello : 2

world : 1

This : 1

is : 2

a : 1

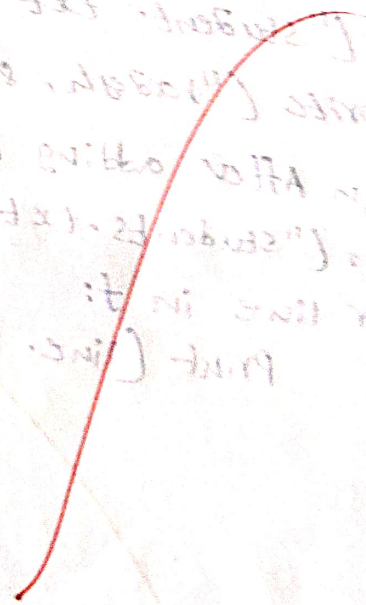
txt : 2

file : 1

for : 1

word : 1

analysis : 1



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# 6. Text file word Analyzer

**Aim:-** To count lines, words, characters and display word frequency in a text file.

**Algorithm:-**

1. Ask user for 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:-**

```
file name = input ("Enter filename:")
with open (filename, "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 (!....12.:;"')
      if word:
          word_count [word] = word_count.get (word,0)+

Print (f"In lines: [num_lines}")
Print (f" words = {num_words}")
Print (f" characters : {num_chars}")
Print ("In word frequency:")
for word, count in word_count.items():
      Print (f" {word}: {count}")
```

| VEL TECH - CSE | |
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| PERFORMANCE (5) | 5 |
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| VIVA VOCE (5) | 5 |
| RECORD (5) | 5 |
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| SIGN WITH DATE | |

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**Result:-**

The program successfully read a text file, counted lines, words, characters, and displayed how many times each words appears in the file.

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