

Task 6. Implement various.

3/9/25

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.

Result - The program successfully created a text file with student records, displayed them, added a new student, and showed 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("Radesh, 88\n")

print("\n After adding new student:")

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

for line in f:

print(line.strip())

Output

Initial student records:

John, 85

Emma, 92

Mike, 78

After Adding new student:

John, 85

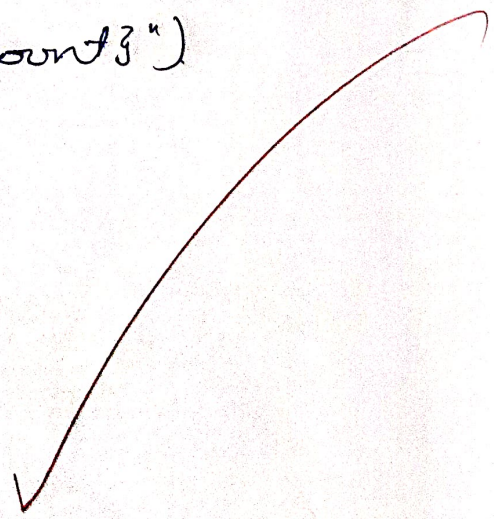
Emma, 92

Mike, 78

Radesh, 88.

Program

```
filename = input ("Enter filename: ")
with open (filename, "r") as f:
    content = f.read()
lines = content.split ('\n')
num_lines = len (lines)
words = content.split ()
num_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"\nLines: {num_lines}")
print (f"Words: {num_words}")
print (f"Characters: {num_chars}")
print ("\nword frequency:")
for word, count in word_count.items():
    print (f"{word}: {count}")
```



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

fr

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

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

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