Task 1 — Implement various txt/csv file operations.

10/9/25

1:

Aim:- To write a python program for creating and updating student registration details txt file operations.

Algorithm:-

Step1:- Start

Step2:- Using open() method, Create and write txt file "myfile" with student details.

Step3:- Update the new registered student details using append operation it.

Step4:- Open the file in read mode and using read() method print the student details.

Step5:- Using seek method print the particular record.

Step6:- Using tell method print the current position file

Step7- Close the file

Step8:- Stop.

PROGRAM:-

```
file = open("student1.txt","w")
input1 = input("Enter column names\n")
file.write(input1)
file.write("\n")
n = int(input("Enter the no of students"))
for i in range(0,n):
    input2 = input("Enter student details with for new")
    file.write(input2)
    file.write("\n")

file = open("student.txt","a")
input3 = input("Enter updated students details\n")
file.write(input3)
```

Output

Student details using Read function □

VTU NO	NAME	AGE
2305	RAM	
1920	SIVA	

2305 RAM

1920 SHIVA

The length of first line is

15

Output of Readline function □

2305 RAM 20

find the current position of file pointer

29

```
file=open("student1.txt","r")
print("Student Details using Read function is:")
print(file.read())
print("\n")

file.seek(0)
print("The length of first line is:")
line=file.readline()
len=len(line)
print(len)
file.seek(len+1)
print("Output of Reading(first student record)fund is:")
print(file.readline())

print("\n find the current position of file pointer:")
file.tell()
print(f)
file.close()
```

Result: Thus the Python program for creating and updating student registration details using txt file operations was executed successfully.

Task 2

Aim:- To write a function that counts the no.of lines containing word "ERROR".

Algorithm:

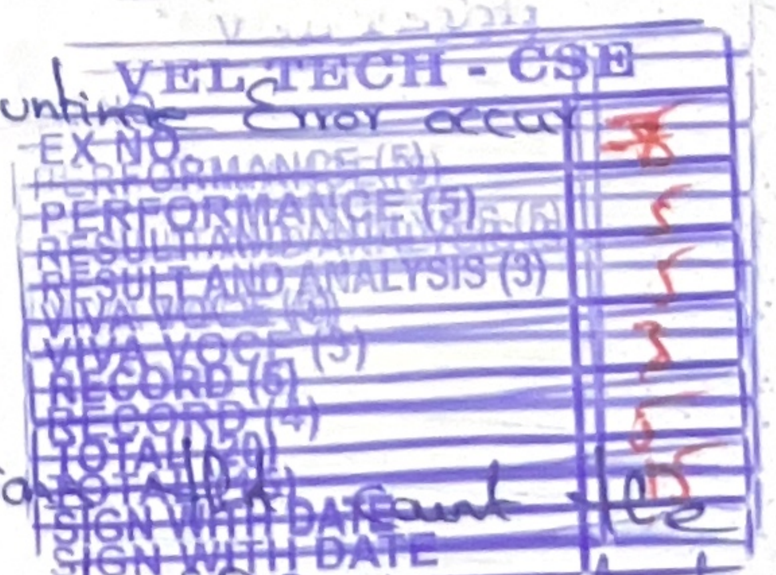
1. Initialize Error Counter:
   - Define the function count_error_lines
     - Initize error_cant to 0.
2. Open and Read file
   - Open the file specified by filename in read mode using a with statement
3. Check Each Line for "ERROR":
   - Loop through each line in file.
     - If the line contains word "ERROR" increment error_
4. Return Error Count:
   - After reading all the lines return value of error_cant
5. Execute the program:
   - Call count_error_lines("log.txt") to count the no.of lines with the Error

Program

```
def count_error_lines(filename):
    error_count-=0
with open filename,"r") as file
    for line in file:
     if "ERROR" in line:
          error_count +=1
     return error_count
Error_lines =count_error_lines("log.txt")
print(f"Number of lines with 'ERROR':{error_lines}")
```

log.txt

Error object are thrown when runtime Error occur



Result:- Thus to write a function count the no.of lines contains word ERROR is verified successfully.

Output

Number of lines with 'ERROR' is 2