## Implement various text file Operation

AIM:

To write a python program Implement various text file opa.

a) You need to write the sentence " Error objects are thrown when runtime evrous Occur. The Error object can also be used as a base object for user-defined exeptions " into a text file named log. txt. Implement a function that performs this task.

## ALGORITHM :-

1. Nrite to a File:

Open a file named "log. txt" in write mode. write the following text to the file:

Close the file.

2. Read from a File: Define needfile (filename) function:
Open the file Specified by filename in read mode using a
with statement.

Read the entire content of the file
Print the content.

3. Execute the Program:

Call writefile ("write") to write the predefined text to "log.txt".

Call readfile ("text") to attempt to read from a file named

"text" and print its content.

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Program:

def writefile (filename):

f=Open ("log.txt","w")

f. write ("Error Objects are thrown when runtime errors

Occur. The Error object (an also be used as a base object

for user-defined exceptions")

f. close ()

def realfile (filename):

with open (filename, "r") as file:

(ontent=file.read ()

Prant (content)

writefile ("write") (log.txt")

readfile ("text") ("log.txt")
```

Output:

Ernor object are thrown when nuntime ernors

Occurs the Ernor object can also be used as a base object for user - defined exception

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b) You have a text file text containing logs of a system write a function that counts the number of lines containing the WORD "ERROR".

## ALGORITHM:-

- 1. Initialize Errox Counter: Pefine the function Counter-errox-line: Initialize evrox-count 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 the file: If the line contains the word "ERROR", increment error-Count by 1
- After reading all the lines, return the value of error\_ Count 5. Execute the Pragram: Call Count-error-lines ("log. txt") to count the number of lines with the world "ERROR" in the file "log. text". Print the result with the message: "Number of lines with IBRROR! ferron-linesy".

PROGRAM: def count-error-lines (filename):

eviori \_ Count = 0

with open (filename, "") as file:

for line in file:

if "ERROR" in line:

eviox-Count +=1

return error-Count

error\_line = count-error\_lines ("log. tact")

Printf ("Number of lines with "EKROR": EMON\_lines)

c) You need to write a neport containing the details (Name, departments) of the employee in list, write a Python function that writes this report to a file named employee - report tat. ALGORITHM: 1. Greate Employee Data: Define the function write-employee-neport (filename): · Create a list employees containing dictionaries, each with "name" and "department" keys for individual employees. 2. Open File for writing: - Open the file specified by filename in write mode using a with 3. write Employee Data to File: · Loop through each employee in the employees list: For each employee, format a string as "Name: {employee['name']}, Department: {employee['department'] 3" . write the formatted string to the file, followed by a newline (in). Program: def write employee - report (filename): employees = [ {"name ": "Alice", "department": "HR"}, ["name": "Bob", "department": "Engineering"y, ["name": "charlie", "department": "Finance "3] with gentfile name, "w") as file: for employee in employees: line = 1" Name: { employee [ 'name '] }, Department: { employee ['department ']3 \n" VEL TECH - CSE file . write (line) PERFORMANCE (5) RESULT AND ANALYSIS (5) RESULT VIVA VOCE (5) Thus, the python program Implement (20) vorified. In all all executed IGN WITH PATE output

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