

TASK-6 IMPLEMENT VARIOUS TEXT FILE OPERATION

17/12/25

Aim: To write a python program implement various text file operations.

Problem 6.1:

You need to write the sentence "Error objects are thrown when runtime occurs errors occur". The error object can also be used as a base object for user defined exceptions into a text file named log.txt. implement a function that performs this task.

Algorithm:

1. write to a file

• Define write file (filename) function:

- Open a file named "log.txt" in write mode.
- Write the following text to the file:
- "Error objects are thrown when runtime errors occur. The error object can also be used as a base object for user defined exceptions".

2. Read for a file:

• Define readfile (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 write file (write) to write the predefined text to "log.txt".
- Call read file ("text") to attempt to read from a file named "text" and print its content.

Program:

def writefile (filename):

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

- f.write ("Error objects are thrown when runtime errors occurs.")

```
f.close()
def readfile (file name):
    with open (file name, "r") as file:
        content = file.read()
        print (content)
        writefile ("write")
        readfile ("text")
```

Problem-6.2:

You have text file log.txt containing logs of a system. Write a function that counts the number of lines containing the word "Error".

Algorithm:

1. Initialize Error counter:
2. Open & Read file.
3. Check each line for "Error".
4. Loop through each line in the file
4. Return Error count:
- After reading all lines, return the value of error-count.
5. Exit the program.

```
Program:
def write_employee_report (filename):
    employees = [
        {"name": "Alice", "department": "HR"},
        {"name": "Bob", "department": "Engineering"},
        {"name": "Charlie", "department": "Finance"}
    ]
    with open (filename, "w") as file:
        for employee in employees:
```

Output :

Error Objects are thrown when runtime errors occur. The error object can also be used as a base object for user defined exceptions.

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line = { Name: { employee['name'] }, Department :
        { employee[department] } \n"
file . write (line)
# Example usage :
write - employee - report ("employee - report . text")

OUTPUT :
Name : Alice, Department : HR
Name : Bob, Department : Engineering
Name : Charlie, Department : Finance

```

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RESULT: Thus, the python program implement various text file operations was successfully executed and the output was verified.