Task-6+ Implement various text file operation 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 errors occur. The Error 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 writefile (tile name) function: · Open a file named "log. txt" in write mode · write the following text to the file. "Error objects are thrown when mutime errors occur. The Error object can also be used as a base object for user-defined exceptions,

· close the file.

2. Read from a File:

* Define readtile (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

output - Enois objects are thrown when runting enois occur. The Enois Object can also be used as a base Object for user-defines exceptions.

Program 6-1: def write file (filename): f = open ("log. +x+ ", "w") f. write ("Error objects are thrown when mutime enots occur. The Enot object can also be used as a base object for user-defined exceptions") f. close() det readfile (filename): with open (filename, "1") as file: content = file read () print (content) writefile ("write") readfile ("text") containing logs of a system write a function that counts the number of lines containing the word "ERROR". Algorithm: 1. Initialize Error Counter: · Define the function count-enor-lines (filehande): · Initialite enor- count too. 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 twongh each line in the file: . If the line contains the word "ERROR", increment error - count by 2. 4. Return thor count:

Number of liney with 'ERROR' is 2

· After reading all the lines, beturn the value of error-count. J. Execute the program: · Callcount - error-lines ("log. txt") to count the number of lines with the word "ERROR" in the file "log. txt"! · print the result with the message: "Number of liney with 'ERROR': Schor-lines?" program 6.3: def count-enor-lines (filename): emor-count=0 with open (tilename, "r") as file: for line in file: if "ERROR" in live: expor - count += 1 return error- count error-lines = count-error-lines ("log .txt") printf! Number of lines with 'Error': (enor-lines)" problem 6.3: You need to write a report containing the details (Name, departments) of the employee in list write a python function that writes this report to a file named employee - report to Algorithm; 1. create Employee Data: · Define the function write-employee-report · create à list employées containing diction (file name). -aries, each with "name" and "department" Keys' for individual employees. open file to Writing:

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

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open the file specified by filename in write mode using a with statement.
write mode using a with statement.
3. write Employee Data to File;
· Loop through each employee in the employees
It C I - '
· For each employee, format a string.
· For each employee, format a string as "Name; femployee ('name')], Department:
· write the formatted string to the,
· write the formatted string to the file, followed by a newline character (14).
4. Execute the program:
Gall write - employee - report ("employee-report, txt") to write the employment date to the
+x+") to write the empty"
file compagee-
program 6.3: det write-employee-report (filename).
det write-employee-report
employees = ["name": "Alice", "department": "HR"y, "name": "poh" "department": "Engineering" "y,
employees = ["Alice", "department": "HR"y,
s''name": 1806) "(department": "Finance")
s'hame": "Charle"
- on filerame,
with open (filehand), employees: VELTO VELTO (name) to pen (filehand), employees: ventore (name) to pen (filehand), employees:
to employee in employee (mannet for Destituents) line = f"Name: (employee (mannet for Destituents) (employee ['department for ano analysis s) file. write (line) (exployee (ine) (exployee (
employee depart approved (1)
file write (line)
Example wage.
write - employed and implement lander
text tile operations was successfully executed
and the output was verified.
// 014 /6.