task: 6:- Implement various text file operation.

Aim: - norm anitary notes much no donde com?

to write a python program implement various text file operations.

6-1: You need to write the sentence "Error objects are thrown when return runtime errors own.

The Error object can also be used on the base object for user-defined experience" into a text file named log.txt. Implement a function that performs this task.

Algorithmi:-

1. Write to a File:

o Define writefile (filename) function:

Open a file named "log.txf" in write mode

write the filowing text to the file:

"Error objects are thrown when runtime errors occurs-The Error object can also be used as a base object for used difined exceptions"

close the file.

- 2 Read from a File:
 - o Define readfile (file name) function:

open the file specified by file name in read made using a with statment.

Read the entire content of the file.

Print the context.

3. Execute the program:

o Call write file ("write") to write the predefined

text to "log. +x+".

12 Into winov transfer : 3:11 Output: Error objects are thrown when nontime errors occur The error objects can also be used as a base abject for user-defined exceptions. road" where the winds to know it's the water where we water reader or a chapter of so has also was triple word site and Entrespect books now at their and west all manual beginning of the . Head zith zowadras toth - inthingold ida o distil · Define with The (Floriday) formations open cofile fromed "logted" in wait made white the filosoff text to the Fle " From objects are thrown when winding enois elonis. The form object on the is a tought and a so been ed "introduce South · dit die moto 1 head from a File: obstrat (mond) dilbori midalo bor of month to bettine all all maps · kvanlade Min on grice about the other control of the file history at the So Call contacts of contacts of the production is 3 Frank Ils progress "total of the

o Call readfile ("text") to ottempt to read from a file named "text" and print its content.

Program:

def writefile (flename):

f=open ("log.txt" wy)

forwrite (" From Objects are thrown when runtime errors occurs. The error objects can also be used as a base objects for usedrdefined exceptions")

Riclose ()

Let readfile (Flename):

with open (flename, "r") as file.

content = file. read ()

print (content)

writefile ("write")

readfile ("text")

6.2: You have text file log. txt cantaining logs of a system. Write a function that courts the number of lines containing the word "ERADA".

Algorithma:

- 1. Initialize From Counter:
 - o Define the forction count_error_lines (filename): Initialize error_count to 0.
- 2. Open and Read File:
 - o open the file specified by filerame in read made 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.
- 4. Retorn ERROR Count?
 - · After reading all the lines, return the value of error-count.
- 5. Exacte the program:
 - · Call count-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: "Nomber of lines with 'ERROR':
 {emor-lines}"

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Pragram: def count error lines (Rilename): error - count = 0 with open (filonome, "r") as file: for line in file: "F "ERROR" in line: emor_count +=1

tetorn error count

error-line = count-error-lines ("lag.txt") print (f" Number of Lines with 'ERROR': {error-lines}") log.txt 4 ERROR object are thrown when runtime Error ocur. The Error object can also be used be as a base object for user-difined exceptions."

6.3: You need to write a report containing the defiale (Name, departments) of the employee in list. Write a Python Enction that writes this report to a file named employee-report txt.

Algorithm:

- 1. Create Emplayee Data:
 - o Define the forction write-employee-report (florene): Create a list employee containing dictionary: each with "name" and "department" key for individual employees.
- 2. Open like for writing:
 - o open the file specified by filename in words write made using a with statement-
- 3. Write Employee Data to fle:
 - · Loop through each employee in the employee list:

For each employee, format a string as 'Nome: {employee['name']}, Department: {employee[doptert ment]}'1.

write the formated string to the file followed by a newline character (In).

- 4. Exewte the program:
 - o Call write-employee-report ("employee-report. +xt") to write the employee data to the file "employee report. +xt".

trave a skine of born int "2". Output: Name: Alice, Department: HR Name: Bb, Department: Engineering. Name: Charlie, Department: Finace. Treater play 1. Create Implayer Dodge o Define the therefore write a mplayer. report (Adrena) Create a list employer centaining dichmay: is pul "transtrapti" bus "error" Afice does 2 appalgras loubivilari prition of did not s o you the tile specified by Florome in words write made wing a with statement. 3. Unite Employee Date to Ple: e Loop through each employee in the employee For each employee, friends a stive as 'there. femployee [nome]). Desident: femployee [it test Potran wite the formated string to the tile. I know of by a resultine character (Nr). L. Frente the program: o Call write employee. report ("employee. rep. t. 444) to write the employee date to the Like "emplayer report test"

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Pragram!
def corite_employee_report (file name):
 employee = [
  {"name": "Alice", "department ": "HR"},
  {"name"="Bob", "deportment": "Engineering"}.
   {"name": "charlie", "department" "finance"}
```

with open (filename, "w") as file: for employee in employees:

line = f" Name: { employee ['name '] }, Department: {employee['department']}}n" Flewrite (line)

Example usage:

write-employee_report("employee_report.txt")

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Result: Thus, the python program Implement various text file operations was successfully executed and the output was verified,