

Task 8 - Implement various text file operation

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

Problems - 8.1

You need to write the sentence "Error objects are thrown when runtime errors occur"

Algorithm:

1, write to file

2, Read from file

3, Execute the program

→ call write file to write the predefined text to

"log.txt"

→ call read file to attempt to read from a file named

"text".

Program:

```
def write_file(file_name):
```

```
    f = open
```

```
    f.write
```

```
    f.close()
```

```
def read_file(file_name):
```

```
    with open(file_name, "r") as file:
```

```
        content = file.read()
```

```
        print(content)
```

```
    write_file("write")
```

```
    read_file("text")
```

8.2

You have a text file of log.txt containing logs of a system write a function that counts the numbers of lines.

output :

Error objects are thrown when runtime errors occur, the error object can be used as a base object for user-defined exceptions

Algorithm:

1. Initialize error counter
2. open and read file
3. check each line for "Error"
4. return error count
5. execute the program

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" objects are thrown when runtime error occur
The error object can also be used as base object
for user-defined exceptions.

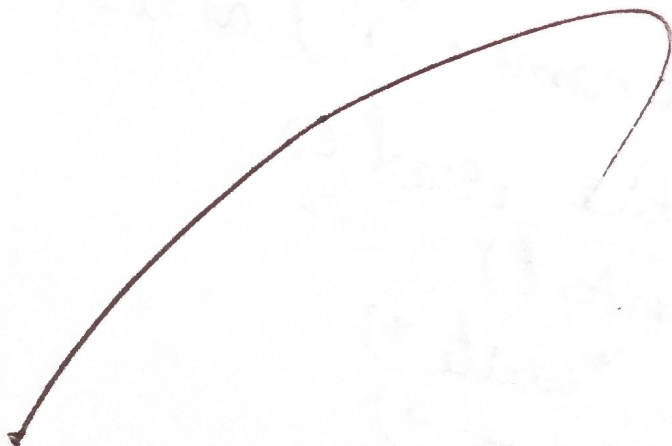
8.3

you need to write a report containing the detail

Algorithm:

1. create employee data
2. open file for writing
3. write employee data to file:
4. execute the program
5. call write_employee_report

Output:
Number of lines with 'Error': 0



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:
```

```
            line = f"Name: {employee['name']} , Department:
```

```
            { employee['department'] } \n"
```

```
            file.write(line)
```

* Example usage:

```
write_employee_report("employee-report.txt")
```

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EX NO.	8
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	
SIGN WITH DATE	15



the python program implement various and successfully executed