

task-8 implement various text file operation.

Ans:-

To write a Python Program implement various text file operations.

Problem-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 (filename):  
    f = open.  
    f.write.  
    f.close()  
  
def read file (filename):  
    with open (filename "r") as file:  
        content = file.read()  
        print (content)  
  
write file ("write")  
read file ("text")
```

Output:
Error:
Exception:

Output:

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

Problem 8.2.

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

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.

a number of times with 'ERROR' is 2

output:-

number of times with 'ERROR' is 2

Problem 8.3.

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.

Algorithm:

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

→ call write_employee_report ("employee_report.txt") to write the employee data to the file "employee_report.txt".

Program 8.3.

```
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")
```

Output:-

Name: Alice, Department: HR

Name: Bob, Department: Engineering

Name: Charlie, Department: Finance

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 program for a file about all the data and it is
 when it is run it will show the data

VEL TECH	
EX NO.	
PERFORMANCE (5)	8
RESULT AND ANALYSIS (5)	7
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	
DATE	

Result:-

Thus, the Python Program implement various text file operations was successfully executed and output was verified.