

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 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 txt 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 from 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 occur.")
```

```
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")
```

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".

Algorithms :

1. Initialize Error counter :
2. Open & Read file.
3. Check each line for "ERROR".
 · loop through each line in the file
4. Return Error count:
 · After reading all lines, return the value of error_count.
5. Excess 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 : *Uncaught ReferenceError: arr is not defined*

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

What will happen with following code?

```
function (arr) {  
    arr[0] = "Hello"  
    return arr  
}  
  
let arr = [1, 2, 3];  
  
arr = function (arr) {  
    arr[0] = "Hello"  
    return arr  
};  
  
arr();  
  
// Output : Uncaught ReferenceError: arr is not defined
```

```
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.