output

error objects are thrown when run time errors occur. the error can also be used as a base objects for user defined exceptions

17-10-25

# Task 8.1

Implement various text file operations

Aim: To write a program for various implementation of various text file operations.

Algorithm

1. write to file:
   * Define write file function:
   * open a file named "log.txt. in write mode.
2. Read from a file
   * print the content
3. execute the program
   * Read the entire content of file
   print the content.

Program

```
def writefile(file name):
    f = open("log.txt", "w").
        f.write
        f.close()
    def read file (file name):
    with open(file open, "r")
    content = file: read()
        print(content)
    write file("write")
    read file("text").
```

Problem 8.2

you have a text log.txt containing logs of a system. write a function that counts the no of lines.

output

no of lines with error 'ERROR' is 2

output

Name: Alice, Department: HR

name: Bob, Department: Engineering

name: charlie, Department: Finance

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"No of lines with 'ERROR' : {error_lines}")
```

8.3 you need to write a report containing the details of the employee in list.

| VEL TECH - CSE | |
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| VIVA VOCE (3) | 3 |
| RECORD (4) | 4 |
| TOTAL (15) | |
| GN WITH DATE | 15 |

Algorithm

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

```
def write_employee_report(file name):
    employees = [
    {"name": "Alice", "Department": "HR"},
    {"name": "Bob", "department": "Eng"},
    {"name": "charlie", "Department": "France"}
    for employee in employees:
line = f"name: {employee['name']} Department {employee
    write_employee_report("employee_report.txt")
```

Result: Thus, The Python programs implement various text file operations was successfull.