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**Python Mock assessment 1**

**Linux 1.2**

**PROGRAM 3:**

**File Handling Utility – Text Analyzer Objective: Read sample .txt file and display all Unique cities sample.txt ( copy the below to sample.txt file )**

**EmpID,Name,Department,Location**

**E1001,Asha Rao,Data Science,Mumbai**

**E1002,Rahul Mehta,IT Support,Hyderabad**

**E1003,Neha Singh,Human Resources,Hyderabad**

**E1004,Vikram Das,Finance,Mumbai**

**E1005,Priya Kapoor,Marketing,Hyderabad**

**Requirements:**

**λ Ask the user for a file path; open safely with try/except for FileNotFoundError.**

**λ Use if condition whereever required**

**λ Use user defined function**

**Sample Input/Output:**

**Sample Input:**

**Enter path to a .txt file: sample.txt**

**Sample Output: < all unique city names line by line >**

**Answer**

Step 1: Creating A Sample.txt document

A screenshot of a computer

AI-generated content may be incorrect.

Step 2: Including try .. except concept for file not found error

And using read method trying to read the file

A screenshot of a computer

AI-generated content may be incorrect.

A close-up of a computer code

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Step 3: Find and iterate the location details

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Output:

A close-up of a text

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**PROGRAM 4: :**

**List Methods — Clean & Normalize Shopping List Objective:**

**Use only list methods (append, extend, insert, remove, pop, index, count, sort, reverse, slicing).**

**Requirements:**

**λ Input: a raw list like [" Milk", "eggs", "MILK ", "bread", "Eggs", " butter "].**

**λ Trim whitespace, convert to lowercase, and remove duplicates while preserving order (no set).**

**λ Print final sorted list and also reversed order.**

**Sample Input/Output:**

**Sample Input: [" Milk", "eggs", "MILK ", "bread", "Eggs", " butter "]**

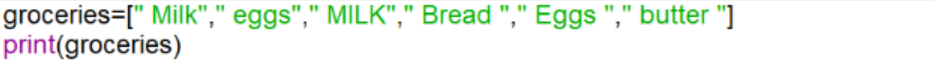
**Sample Output: Counts: milk: 2, eggs: 2, bread: 1, butter: 1**

**Clean list (sorted): ['bread', 'butter', 'eggs', 'milk']**

**Reversed: ['milk', 'eggs', 'butter', 'bread'**

**Answer**

Step 1: A list is created



Output :



Step 2:

Lets create a empty grocery list

Using loops we iterate each and every thing in the grocery list

Using lower() function to change it into lower case

Using strip function to trim the white spaces

Then using conditionals we added the unique elements to the new grocery list

A computer code with black text

AI-generated content may be incorrect.

Step 3:

To sort the Cleaned grocery list use sorted method





Step 4:

Inorder to reverse the grocery list we use a new empty list

We iterate through each list and insert it at the reverse proportional value of the index

A close-up of a computer screen

AI-generated content may be incorrect.



Overall Coding:

A screenshot of a computer

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Overall Output:

A program code with text

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