Karthick VM

Batch-CIS 1.3

Mock Assessment 1 – Python

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

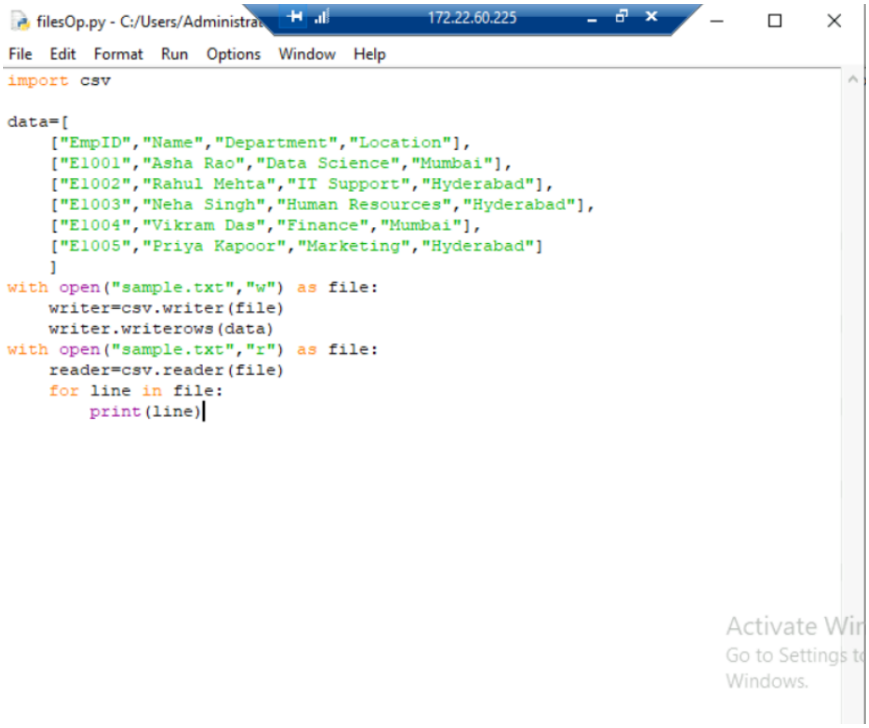
E1004,Vikram Das,Finance,Mumbai

E1005,Priya Kapoor,Marketing,Hyderabad

Requirements:

- Ask the user for a file path; open safely with try/except for FileNotFoundError.
- Use if condition whereever required
- Use user defined function

- Creating file named “sample.txt” with given data



- Display the file

- Program to check if file exists and display the list of unique city names – using try,except,set functions

```
filename=input("Enter the file name:")
city=set()
try:
    if(os.path.isfile(filename)):
        with open(filename,"r") as file:
            reader=csv.reader(file)
            next(reader)
            for row in reader:
                city.add(row[3])
            print("Unique City Name:",city)
except FileNotFoundError as err:
    print("File Not Found")
```


Sample Input/Output:

Sample Input: Enter path to a .txt file: sample.txt

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

- Output for the above program

PROGRAM 4: :

List Methods — Clean & Normalize Shopping List Objective:

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

- Input: a raw list like [" Milk", "eggs", "MILK ", "bread", "Eggs", " butter "].
- Trim whitespace, convert to lowercase, and remove duplicates while preserving order (no set).
- Print final sorted list and also reversed order.

Sample Input/Output:

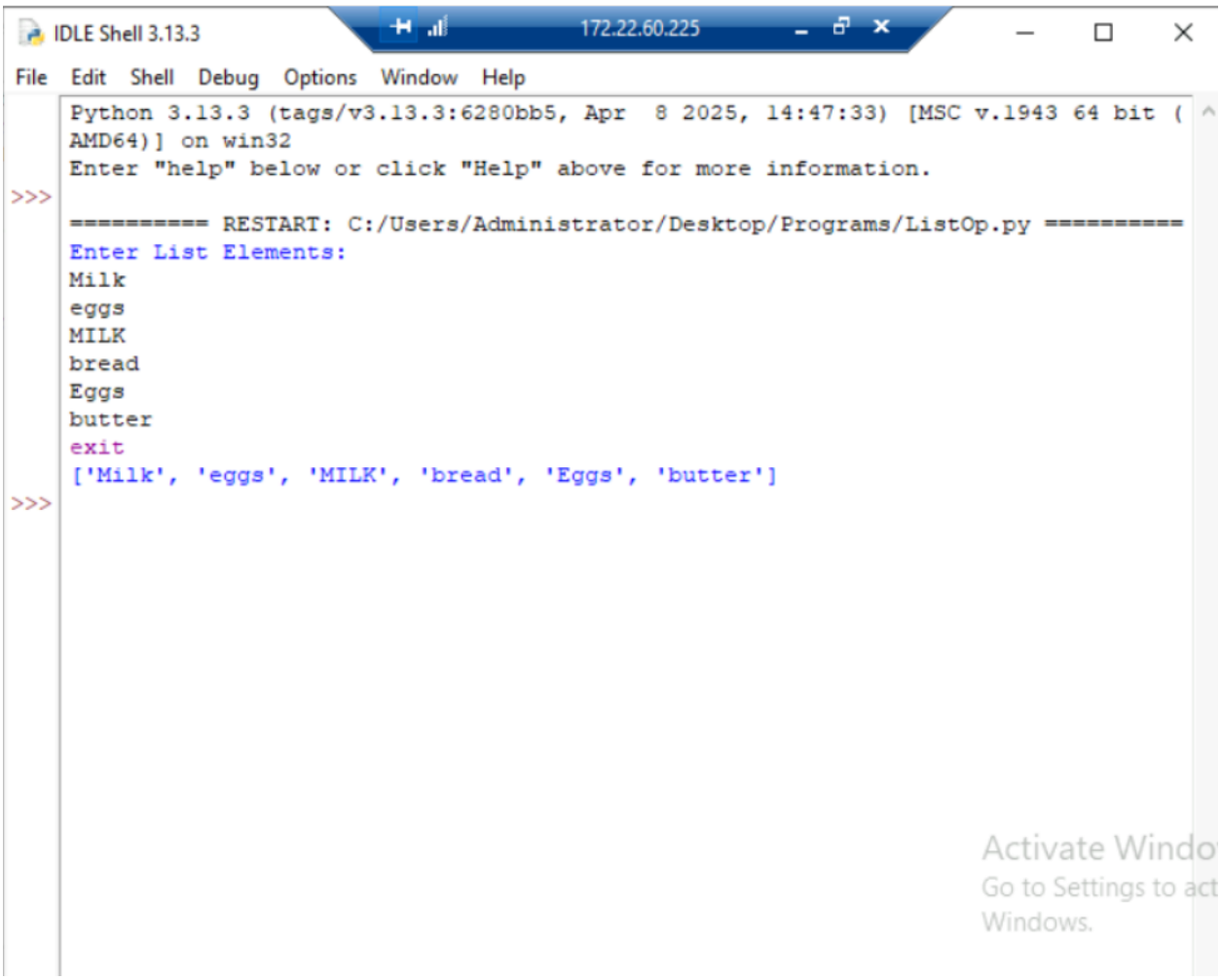
Sample Input: [" Milk", "eggs", "MILK ", "bread", "Eggs", " butter "]

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

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

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

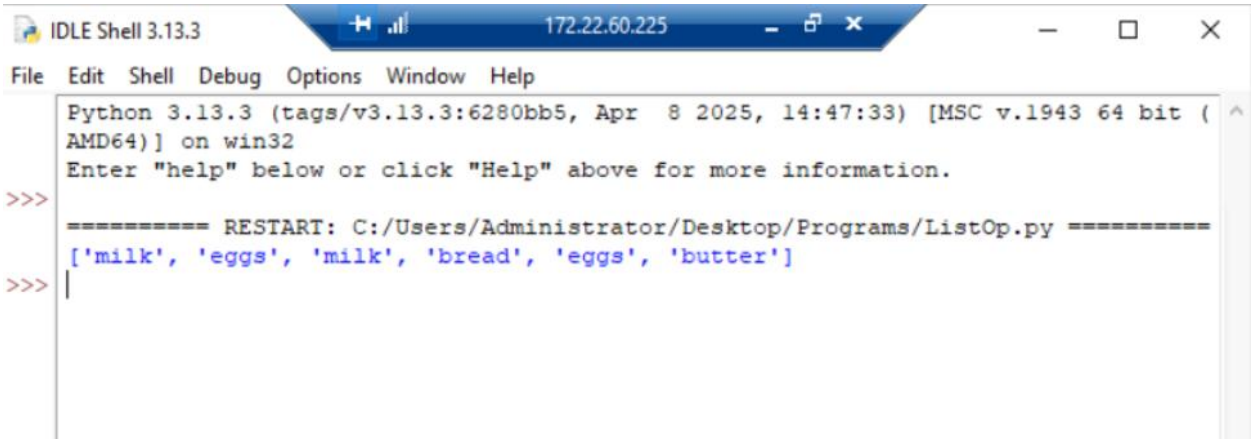
- Creating and displaying the list



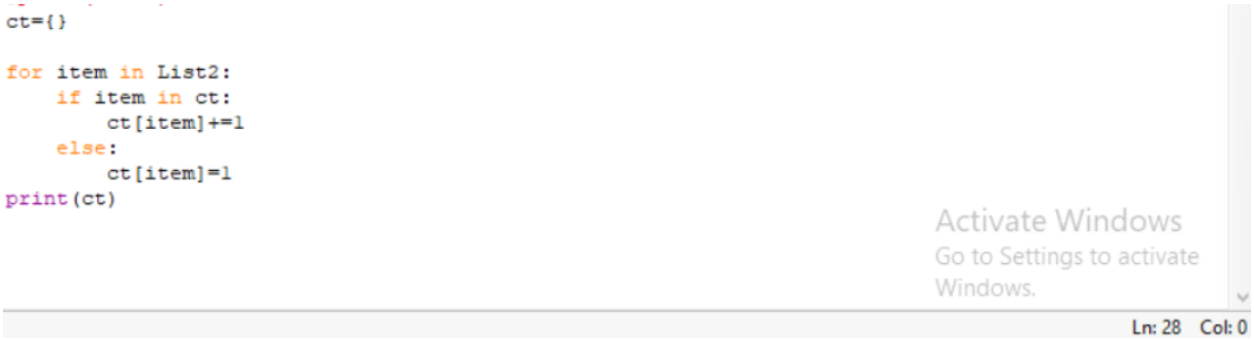
- Creating the Cleaned list with given specification i.e lowercase

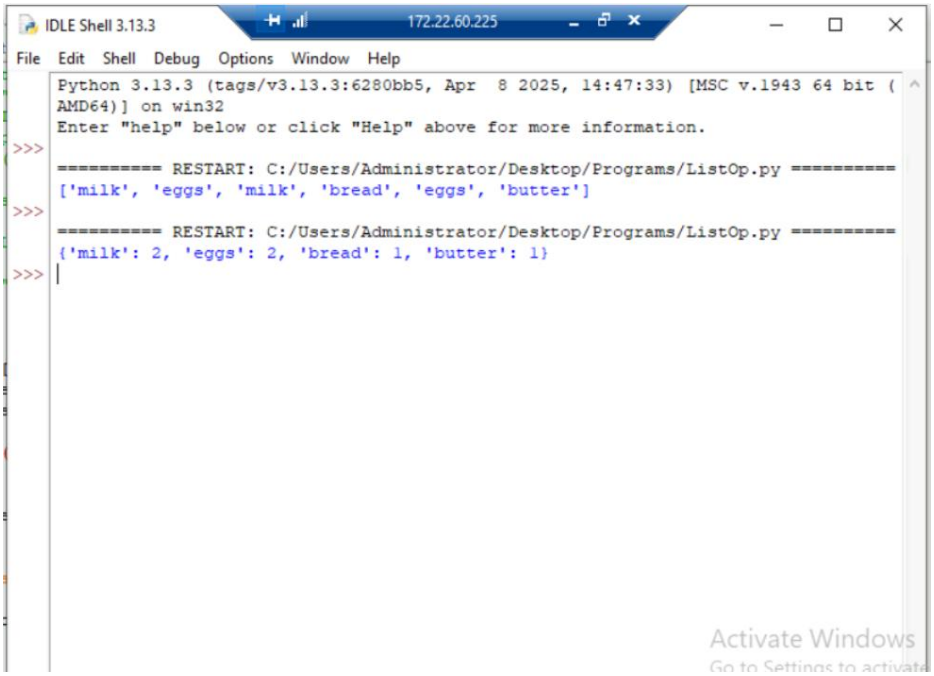
```
List2=[]
for item in List:
    List2.append(item.lower())

print(List2)
```



- Program to get count of items present in the list





- Program to display unique items present in the list, Sort the list and reverse the list

```
unique_list=[]
for item in List2:
    if item not in unique_list:
        unique_list.append(item)

unique_list.sort()
print(unique_list)

unique_list.reverse()
print(unique_list)
```


Ln: 26 Col: 18