CodeAlpha Internship

Cloud Computing Tasks

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Task 1: Data Redundancy Removal System

■ Overview:

This system prevents duplicate data entries (emails or names) in a simple user database.

```
■ Code (Python):
------
users = []

def add_user(name):
if name in users:
return "■■■■■■■■■
"
users.append(name)
return "■■■■■■■■■
"

print(add_user("Mariam"))
print(add_user("Mariam"))
print(add_user("Ali"))

■■ Expected Output:
```

- Explanation:
- Creates a list of users.

- Adds a new name only if it is not already in the list.
- Prevents redundancy (■■■■■■).

Task 4: Cloud Storage Simulation

■ Overview:

This task simulates a cloud storage system where users can upload, list, and delete files.

```
■ Code (Python):
-----
cloud_storage = []
def upload file(file name):
cloud storage.append(file name)
return f"■ {file_name} uploaded."
def list_files():
return cloud_storage if cloud_storage else "■ No files."
def delete_file(file_name):
if file_name in cloud_storage:
cloud storage.remove(file name)
return f"■■ {file_name} deleted."
return "■■ File not found."
# Example Usage
print(upload file("file1.txt"))
print(upload_file("photo.png"))
print(list files())
print(delete_file("file1.txt"))
print(list_files())
■■ Expected Output:
```

- file1.txt uploaded.
- photo.png uploaded.

['file1.txt', 'photo.png']

■■ file1.txt deleted.

['photo.png']

■ Explanation:

- Mimics cloud storage behavior.
- Users can upload, list, and delete files.
- Helps understand basic cloud storage logic.