Assignment 1 - (Python)

1. Write a Python program to check if a given string is an anagram.
2. Write a Python program to find the maximum and minimum values in a dictionary.
3. Write a Python program to find the average of a list of numbers.
4. Write a Python program to remove all vowels from a string.
5. Write a Python function to calculate the factorial of a number using recursion.
6. Write a Python program to merge two unsorted lists into a single sorted list using the merge sort algorithm.
7. Write a Python program to find the GCD (Greatest Common Divisor) of two numbers.
8. Write a Python program to find the second-largest element in a list.
9. Write a Python program to find the longest common subsequence between two strings using dynamic programming.

Submission Guidelines:

1. Answer all the questions in a single Jupyter Notebook file (.ipynb).
2. Include necessary code, comments, and explanations to support your answers and implementation.
3. Ensure the notebook runs without errors and is well-organized.
4. Create a GitHub repository to host your assignment files.
5. Rename the Jupyter Notebook file using the format "date_month_topic.ipynb" (e.g., "12th_July_Python.ipynb").
6. Place the Jupyter Notebook file in the repository.
7. Commit and push any additional files or resources required to run your code (if applicable) to the repository.
8. Ensure the repository is publicly accessible.
9. Submit the link to your GitHub repository as the assignment submission.

Grading Criteria:

1. Understanding and completeness of answers: 40%
2. Clarity and depth of explanations: 25%
3. Correct implementation and evaluation of matrix operations: 15%
4. Proper code implementation and organization: 10%
5. Overall presentation and adherence to guidelines: 10%

Note:- Create your assignment in Jupyter notebook and upload it to GitHub & share that uploaded assignment file link through your dashboard. Make sure the repository is public.