Python Assignment 2

Data Types: List and Tuples

Practical Type Questions

> The following are the assignment questions on the topic List and Tuples and theri methods. **Complete the following exercise in Jupyter Notebook or Google Colab and submit your file before the allotted deadline.**

1. Create an empty list. Prompt the user to enter a city name in India. Append the city names in the list. Repeat until 5 cities.

2. Print the index of all the cities.

3. Swap the first and last cities.

4. Change the cities in the third and fourth position to 'Berlin' and 'Rome'.

5. Slice the names Berlin and Rome and store in a new list for international cities.

6. Prompt the user to enter 3 more international cities.

7. Print the length of both the lists.

8. Combine both the list with International cities first then Reverse the list. The final list should have Indian cities first then international cities.

9. Remove the city at the third position.

10. Below is given a list of words. Combine them to for a String sentence in upper case:

    ['Delhi', 'is', 'a', 'bustling', 'metropolis', 'that', 'seamlessly', 'blends', 'a', 'rich', 'historical', 'past', 'with', 'the', 'modern', 'world.', 'It', 'has', 'a', 'deep-rooted', 'history', 'dating', 'back', 'thousands', 'of', 'years,', 'making', 'it', 'one', 'of', 'the', 'oldest', 'continuously', 'inhabited', 'cities', 'in', 'the', 'world.']

11. Cast the final list of cities formed in the previous question into tuple.

12. Slice the resulting tuple so as to get the first two cities. Then swap the position of first and last for both tuples.

13. Check the length of both the tuples. Add any 5 international cities in the smaller tuple.