REQUESTS MODULE

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This program interacts with the OpenWeatherMap API to retrieve and display the current weather information for a list of cities. Users can manage the list by adding, updating, and deleting cities, and display weather information for either individual or all cities at once. The output generated by the program for each option is described below:

01 Add City (add_city(city)**) :-**
- ➢ **User Input:-** The user is prompted to enter the name of a city to add.
- ➢ **Output**
  - ❖ If the city is successfully added to the list:
    ```
    Enter your choice:  1
    Enter city name to add:  Bangalore
    Added city: Bangalore
    ```
  - ❖ If the city is already in the list:
    ```
    Enter your choice:  1
    Enter city name to add:  Bangalore
    City Bangalore is already in the list.
    ```

02 Update City (update_city(old_city, new_city)**) :-**
- ➢ **User Input:-** The user is prompted to enter the name of a city to update and a new name for it.
- ➢ **Output**
  - ❖ if the old city name is found in the list and successfully updated:
    ```
    Enter your choice:  2
    Enter city name to update:  Bangalore
    Enter new city name:  Ranchi
    Updated city from Bangalore to Ranchi
    ```
  - ❖ If the old city name is not found in the list:
    ```
    Enter your choice:  2
    Enter city name to update:  Mysore
    Enter new city name:  Mysore

    City Mysore not found in the list.
    ```

03 Delete City(delete_city(city)) :-

➤ **User Input:-** The user is prompted to enter the name of a city to delete.

➤ **Output:-**

❖ **If the city is successfully deleted from the list:**

```
Enter your choice:  3
Enter city name to delete:  Bangalore

Deleted city: Bangalore
```

❖ **If the city is not found in the list:**

```
Enter your choice:  3
Enter city name to delete:  Delhi

City Delhi not found in the list.
```

04 Show Weather(show_weather()):-

➤ **Output: Displays the weather for all the cities currently in the list.**

❖ **If there are no cities in the list:**

```
Enter your choice:  4
No cities in the list. Add a city first.
```

❖ **For each city in the list, the following information is displayed:**

```
Enter your choice:  4
Weather in Bangalore: broken clouds, Temperature: 27.13°C
Weather in Mysore: scattered clouds, Temperature: 28°C
```

05 Show weather of all cities(show_weather_of_all_cities()**):-**
  - ➢ **Output:**
    - ❖ **Displays the weather of all cities in the list at once.**

      ```
      Weather of All Cities:
      Weather in Bangalore: broken clouds, Temperature: 27.13°C
      Weather in Mysore: scattered clouds, Temperature: 28°C
      ```

    - ❖ **If there are no cities in the list:**

      ```
      Enter your choice:   5

      Weather of All Cities:
      No cities in the list. Add a city first.
      ```

06 Exit
  - ➢ **User Input:** Selecting option **6** will terminate the program.
  - ➢ **Output:** When the user chooses to exit, the following message is displayed:

    ```
    6. Exit
    Enter your choice:   6
    Goodbye!
    ```