DATASET : - Swiggy Restaurants dataset

EDA

1. **Load and Inspect Data** – Read the dataset into a Pandas DataFrame and check for missing values, data types, and basic statistics.
2. **Summary Statistics** – Generate summary statistics for Price, Avg ratings, and Total ratings.
3. **Handle Missing Values** – Identify and fill or remove missing values if any.
4. **Convert Data Types** – Ensure numerical columns (Price, Avg ratings, Total ratings) are in the correct format.
5. **Standardize Column Names** – Convert column names to lowercase and replace spaces with underscores.
6. **Top 5 Expensive Restaurants** – Find the five most expensive restaurants based on Price.
7. **Top Rated Restaurants** – List restaurants with an Avg ratings of 4.5 and above.
8. **Average Price by Food Type** – Calculate the average price of different Food type categories.
9. **Most Popular Cities** – Find which cities have the most restaurants.
10. **Fastest Delivery Restaurant** – Identify the restaurant with the least Delivery time.

Visualization

11. **Price Distribution** – Create a histogram or box plot of Price.
12. **Top Food Types** – Create a bar chart showing the number of restaurants per Food type.

13. **City-wise Avg Ratings** – Plot a bar chart showing the average rating of restaurants in each city.
14. **Top 10 Cities with the Most Restaurants** - A bar chart showing the number of restaurants per city.
15. **City-wise Average Price** : - A grouped bar chart showing the average Price for restaurants in each city.
16. **Top 10 Most Expensive Restaurants** - A horizontal bar chart showing the top 10 most expensive restaurants.