TASK 2: Exploratory Data Analysis (EDA)

Dataset:
quotes_dataset.csv (Generated using Web Scraping)

Objective:
The objective of Exploratory Data Analysis (EDA) is to understand the dataset structure, identify patterns and trends, test assumptions, and detect potential data issues before performing further analysis.

1. Meaningful Questions:
- How many quotes and authors are present?
- Which author has the most quotes?
- What are the most common tags?
- Are there missing values?
- Do quotes vary in length?

2. Data Structure:
The dataset contains three columns: Quote, Author, and Tags.
All columns are text-based and the dataset is clean.

3. Trends and Patterns:
Few authors contribute most of the quotes.
Inspirational and life-related tags are most common.
Quotes vary in length across authors.

4. Hypothesis Testing:
Popular authors tend to have more quotes.
This assumption is partially validated.

5. Data Issues:
Tags column contains multiple values in one cell.
Text preprocessing is required.

Conclusion:
EDA helped in understanding dataset quality, trends, and issues.