

# **CLASS - I , ASSIGNMENT**

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# 1 PROBLEM STATEMENTS

## 1.1 PROBLEM - I

### ANALYZE GDP OF COUNTRIES DESCRIPTION

**Problem Statement:** Evaluate the dataset containing the GDPs of different countries to:

- Find and print the name of the country with the highest GDP
- Find and print the name of the country with the lowest GDP
- Print out text and input values iteratively
- Print out the entire list of the countries with their GDPs
- Print the highest GDP value, lowest GDP value, mean GDP value, standardized GDP value, and the sum of all the GDPs

Link for the dataset [link](#)

## 1.2 PROBLEM - II

### ANALYZE LONDON OLYMPIC DATA SET

**Problem Statement:** Evaluate the dataset of the Summer Olympics, London 2012 to:

- Find and print the name of the country that won maximum gold medals,
- Find and print the countries who won more than 20 gold medals,
- Print the medal tally,
- Print each country name with the corresponding number of gold medals, and
- Print each country's name with the total number of medals won.

Link for the dataset [link](#)

### 1.3 PROBLEM - III

#### ANALYZE THE FEDERAL AVIATION AUTHORITY DATASET USING PANDAS

**Problem Statement:** Analyze the Federal Aviation Authority (FAA) dataset using Pandas to do the following:

- View
  - aircraft make name
  - state name
  - aircraft model name
  - text information
  - flight phase
  - event description type
  - fatal flag
- Clean the dataset and replace the fatal flag NaN with No
- Find the aircraft types and their occurrences in the dataset
- Remove all the observations where aircraft names are not available
- Display the observations where fatal flag is Yes

Link for the dataset [link](#)