<u>**Assessment Task: Fetching and Analyzing Top 50 Live Cryptocurrency Data**</u>

<u>**Objective:**</u>

The goal of this assessment is to fetch live cryptocurrency data for the top 50 cryptocurrencies, analyze it, and present the data in a live-updating Excel sheet. The Excel sheet should continuously update with the latest cryptocurrency prices.

Assessment steps-

1- Fetch Live Data
Use a public API (e.g., CoinGecko, CoinMarketCap, or Binance API) to fetch the top 50 cryptocurrencies by market capitalization.

The data should include at least the following fields:

- Cryptocurrency Name

- Symbol

- Current Price (in USD)

- Market Capitalization

- 24-hour Trading Volume

- Price Change (24-hour, percentage)

2-Data Analysis

Perform basic analysis on the live data fetched. Your analysis should include:

- Identifying the top 5 cryptocurrencies by market cap.

- Calculating the average price of the top 50 cryptocurrencies.

- Analyzing the highest and lowest 24-hour percentage price change among the top 50.

3-Live-Running Excel Sheet

Set Up Live Updating in Excel:

- fetch live data directly into Excel from the API.

Your sheet must:

- Continuously update the data (e.g., every 5 minutes).
- Show the **live prices** and other key metrics.

4-Submission Requirements:

I.   Python Script
II. Excel sheet should show **live updating data**. Share link also to see live updated sheet in excel.
III. **Analysis Report**: A brief report (PDF or Word) summarizing the key insights and analysis from the data fetched.