**ASSIGNMENT REPORT-1**

**STEPS**

STEP 1. **Fetch Live Data**

We'll use a public API like CoinGecko API to fetch the data for the top 50 cryptocurrencies by market capitalization.

* Use Python with the requests library to fetch the data.
* Choose the fields required for the task, such as Name, Symbol, Current Price (in USD), Market Capitalization, 24-hour Trading Volume, and 24-hour Price Change percentage.

STEP 2**. Data Analysis**

Perform analysis on the live data to identify key insights:

* **Top 5 Cryptocurrencies by Market Cap:** Sort the DataFrame by 'Market Capitalization' and pick the top 5.
* **Average Price of Top 50 Cryptos:** Calculate the average of the 'Current Price (USD)' column.
* **Highest and Lowest 24-hour Price Change:** Identify the maximum and minimum values in the '24h Price Change (%)' column.

**STEP 3. Live-Running Excel Sheet**

* To make the data update live in Excel, you can use Excel's ability to fetch live data directly via Power Query or use a Python package like openpyxl to continuously update the sheet.
* Alternatively, you can set up a script that updates the data every 5 minutes using time.sleep() in Python.

**Final Step**

1. Run the Python script to fetch the live data.
2. Make the Excel sheet continuously update every 5 minutes.