To complete this assignment, I followed the steps below:

1. Imported the required libraries: requests, BeautifulSoup, yfinance and re.
2. Defined a function **extract\_canoo\_info** to extract information about Canoo from its press release, including industry, size, growth rate, trends, key players, competitors, and market size.
3. Defined a function **extract\_competitors\_info** to extract information about Canoo's competitors from a third-party website, including their market share, products or services offered, pricing strategies, and marketing efforts.
4. Defined a function **extract\_ev\_trends** to extract key trends in the electric vehicle market from a third-party website, including changes in consumer behavior, technological advancements, and shifts in the competitive landscape.
5. Defined a function extract\_financial\_data to extract financial data for a list of tickers within a specified date range.
6. Defined a function **write\_to\_text** to write all the extracted information to a text file for easy reference.
7. In the main function, I defined the list of tickers, start and end dates, and called the functions to extract financial data, Canoo information, competitor information, and market trends.
8. Finally, I wrote all the extracted information to a text file.

**The main challenges I faced:**

I found a third-party website that provided information about Canoo's competitors without requiring a login. I used this website to extract information about Canoo's competitors, including their market share, products or services offered, pricing strategies, and marketing efforts. I then defined a function extract\_competitors\_info to extract this information from the website and return it as a list of dictionaries.

Regarding financial data, I used the yfinance library to extract financial data for a list of tickers within a specified date range. I defined a function extract\_financial\_data to extract this information and return it as a dictionary with tickers as keys and financial data as values. However, I faced the challenge of not being able to access Canoo's financial data as it was not publicly available. To overcome this, I searched for alternative sources that could provide Canoo's financial data without requiring a login.

Unfortunately, I was not able to find any alternative sources that could provide Canoo's financial data without requiring a login. Therefore, I was unable to extract Canoo's financial data for the report. However, I was able to extract financial data for other electric vehicle companies, including Rivian, Tesla, NIO, and Lucid Motors.

In summary, I faced the challenge of not being able to access Canoo's competitors and financial data without requiring a login. To overcome this, I used a third-party website to extract information about Canoo's competitors and searched for alternative sources to extract Canoo's financial data. Unfortunately, I was unable to find any alternative sources that could provide Canoo's financial data without requiring a login. Therefore, I was unable to extract Canoo's financial data for the report.