**Part A :**

A graph of a price

AI-generated content may be incorrect.

A graph of a price

AI-generated content may be incorrect.

A graph showing the price of milk

AI-generated content may be incorrect.

**Part B:**

**Prompt Engineering to render the same graph on ChatGPT Interface.**

Using the FRED API, please retrieve the time series data for "Average Price: Milk, Fresh, Whole, Fortified (Cost per Gallon/3.8 Liters) in U.S. City Average" (series ID: APU0000709112) for the last 10 years in JSON format. Then, generate a complete HTML document with JavaScript that leverages the Google Charts API to render an interactive line chart displaying this data. The chart should have the following features:

-A smooth curve (using the "curveType" option).

- A clear chart title and labeled axes.

- Date input controls ("From Date" and "To Date") that allow users to filter the displayed time series data by a custom date range.

Please ensure the code is self-contained and can run directly in a browser. Also, include instructions on where to insert the FRED API key.