## PROGRAM

import matplotlib.pyplot as plt

import pandas as pd

from datetime import datetime

# Sample data

data = [

{'date': datetime(1963, 1, 1), 'compound': 0.34},

{'date': datetime(1989, 1, 1), 'compound': 0.65},

{'date': datetime(2009, 1, 1), 'compound': 0.51}

]

# Create DataFrame

df = pd.DataFrame(data)

# Sort by date

df.sort\_values(by='date', inplace=True)

# Plotting

plt.figure(figsize=(10, 6))

plt.plot(df['date'], df['compound'], marker='o', color='blue', label='Compound Sentiment')

plt.title('Sentiment Shift in Political Speeches Over Time')

plt.xlabel('Year')

plt.ylabel('Compound Sentiment Score')

plt.grid(True)

plt.legend()

plt.tight\_layout()

plt.show()

## OUTPUT

## Compound Sentiment Score

* **January 1, 1963**: Compound Sentiment Score of 0.34
* **January 1, 1989**: Compound Sentiment Score of 0.65
* **January 1, 2009**: Compound Sentiment Score of 0.51

The resulting visualization is a line graph with data points connected chronologically, providing a clear depiction of sentiment shifts across these years.

In this ASCII representation:

* The Y-axis represents the Compound Sentiment Score.
* The X-axis represents the Year.
* Each '●' denotes a data point corresponding to the sentiment score on a specific date.

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## 1960 1980 2000 2020 YEAR