```
In [1]: import pandas as pd
        import matplotlib.pyplot as plt
        from sklearn.metrics import mean_squared_error, mean_absolute_error
        import numpy as np
```

```
In [2]: df = pd.read_csv(r'C:\Users\HP\OneDrive\Desktop\NLP\Data\ML471_S4_Datafile_Pract

        df['Date'] = pd.to_datetime(df['Date'])
        df.set_index('Date', inplace=True)

        series = df['Close']

        train_size = int(len(series) * 0.8)
        test = series[train_size:]

        seasonal_period = 12

        forecast = []

        for i in range(len(test)):
            forecast.append(series.iloc[train_size - seasonal_period + i])

        forecast = pd.Series(forecast, index=test.index)
```

```
In [4]: plt.figure(figsize=(12, 6))
        plt.plot(test.index, test, label='Actual', color='blue')
        plt.plot(forecast.index, forecast, label='Forecast', color='orange')
        plt.title('Seasonal Naive Forecast vs Actual')
        plt.xlabel('Date')
        plt.ylabel('Close Price')
        plt.legend()
        plt.show()
```