```
from google.colab import files
    uploaded= files.upload()
    Choose Files | Coca-Cola_...tory (1).csv
    Coca-Cola_stock_history (1).csv(text/csv) - 1233831 bytes, last modified: 10/14/2025 - 100% done
    Saving Coca-Cola_stock_history (1).csv to Coca-Cola_stock_history (1).csv
    import pandas as pd
    cc=pd.read_csv("Coca-Cola_stock_history (1).csv")
    cc.head()
                                                                                             丽
                                                          Volume Dividends Stock Splits
             Date
                      Open
                                High
                                           Low
                                                  Close
    0 1962-01-02 0.050016 0.051378 0.050016 0.050016
                                                          806400
                                                                         0.0
                                                                                         0
                                                                                             ıl.
    1 1962-01-03 0.049273 0.049273 0.048159 0.048902 1574400
                                                                         0.0
                                                                                         0
    2 1962-01-04 0.049026 0.049645 0.049026 0.049273
                                                                         0.0
                                                                                         0
                                                          844800
    3 1962-01-05 0.049273 0.049892 0.048035 0.048159 1420800
                                                                         0.0
                                                                                         0
    4 1962-01-08 0.047787 0.047787 0.046735 0.047664 2035200
                                                                         0.0
                                                                                         0
Next steps:
            Generate code with cc
                                    New interactive sheet
    lstm_model = Sequential()
    lstm_model.add(LSTM(50, return_sequences=True, input_shape=(0, 1)))
   lstm_model.add(LSTM(50, return_sequences=False))
    lstm_model.add(Dense(25))
    lstm_model.add(Dense(1))
    /usr/local/lib/python3.12/dist-packages/keras/src/layers/rnn/rnn.py:199: UserWarning: Do not pass an `in
      super().__init__(**kwargs)
    data = cc.filter(["Close"])
    dataset = data.values
    # Scaling the data
    scaler = MinMaxScaler(feature range=(0,1))
    scaled_data = scaler.fit_transform(dataset)
```

```
# Splitting the data into training and testing sets
train_size = int(len(dataset) * 0.8)
train_data = scaled_data[0:train_size, :]
test_data = scaled_data[train_size - 60:, :]

# Preparing the data for LSTM model
def create_dataset(data, look_back=60):
    X, y = [], []
    for i in range(len(data) - look_back):
        X.append(data[i:(i + look_back), 0])
        y.append(data[i + look_back, 0])
    return np.array(X), np.array(y)

look_back = 60
X_train, y_train = create_dataset(train_data, look_back)
X_test, y_test = create_dataset(test_data, look_back)
```

```
lstm_model.compile(optimizer='adam', loss='mean_squared_error')
lstm_model.fit(X_train, y_train, batch_size=1, epochs=1)

12188/12188 _______ 295s 24ms/step - loss: 3.0791e-05
<keras.src.callbacks.history.History at 0x7f7cfc31bd40>
```

```
# Visualizing the Results for LSTM
plt.figure(figsize=(16,8))
plt.title('LSTM Model Predictions vs True Values')
plt.plot(y_test, label='True Values')
plt.plot(lstm_predictions, label='LSTM Predictions')
plt.xlabel('Date', fontsize=18)
plt.ylabel('Close Price USD ($)', fontsize=18)
plt.legend()
plt.show()
```

