## **Program**

import pandas as pd # Step 1: Load the dataset data = pd.read\_csv('product\_sales.csv') # Replace 'product\_sales.csv' with your dataset's file path # Step 2: Preprocess the data # Handle missing values (if any) data.dropna(inplace=True) # Convert data types if needed data['price'] = data['price'].astype(float) data['total\_sales'] = data['quantity'] \* data['price'] # Step 3: Perform analysis # Calculate total sales total\_sales = data['total\_sales'].sum() print(f'Total Sales: \${total\_sales:.2f}') output print("\nSample Output:") print(data.head()) # Display the first few rows of the preprocessed dataset product, quantity, price A,10,5.00 B,5,8.00 C,8,12.00 A,7,5.00

## B,3,8.00

## C,6,12.00

## product quantity price total\_sales

0 A 10 5.0 50.00

1 B 5 8.0 40.00

2 C 8 12.0 96.00

3 A 7 5.0 35.00

4 B 3 8.0 24.00