**Product sales analysis**

**Phase 3: Development part 1**

In this section being building your project loading and

preprocessing the data set

**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("\n 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