AI ASSISTED CODING

LAB ASSIGNMENT – 6.5

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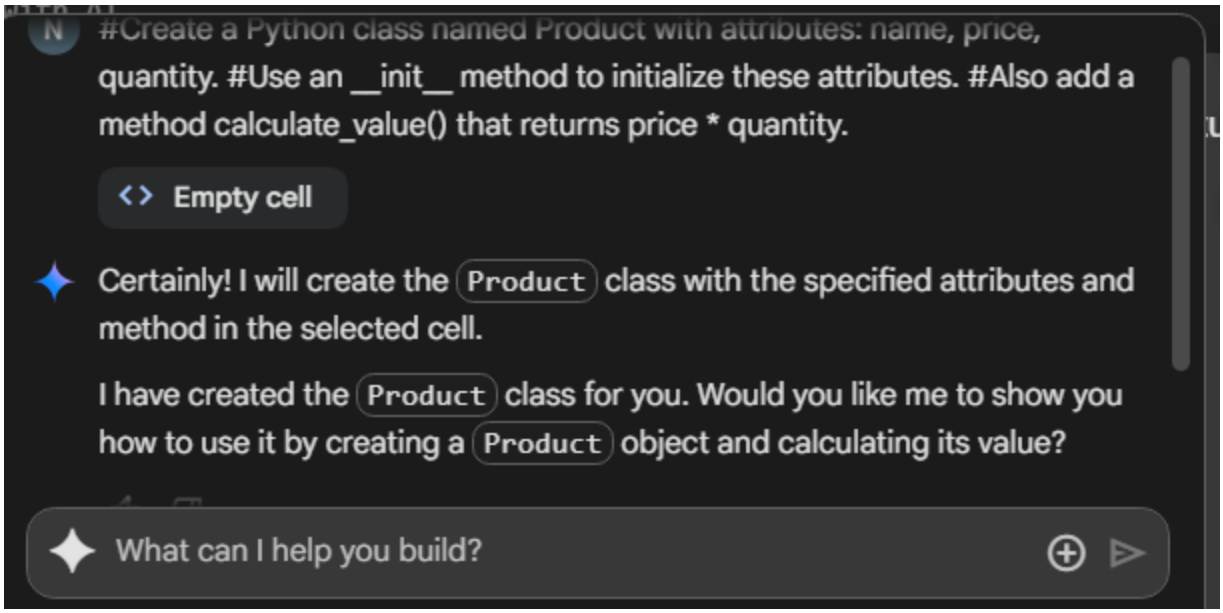
24BTCAICYB01-2-1

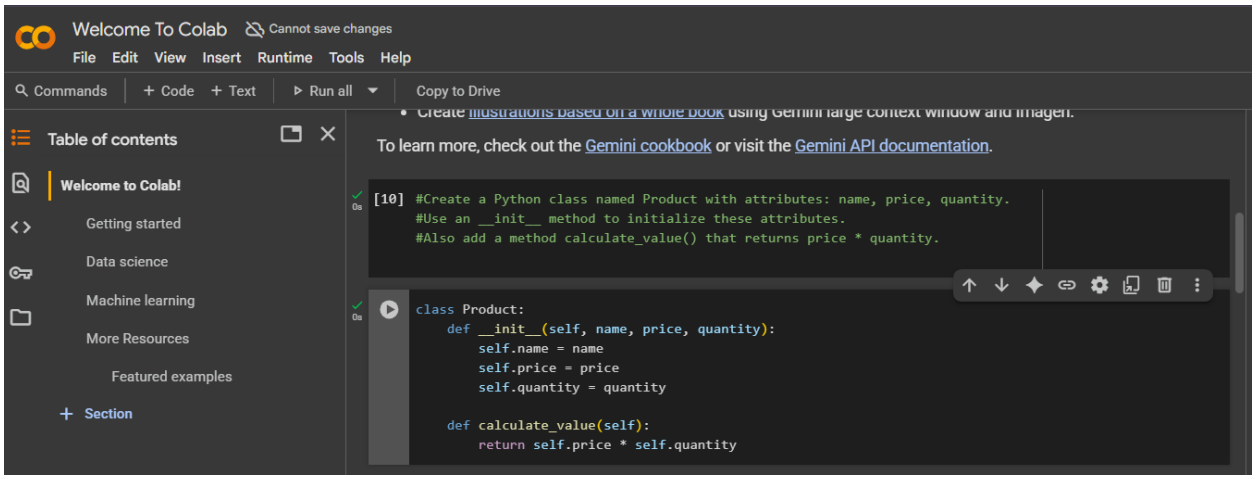
#TASK-1

Class Design Using AI Assistance:
• Begin defining a Product class with attributes: name, price, quantity.
• Use the AI suggestion feature to automatically complete the __init__() method.
• Add a method calculate_value() to return price * quantity.

PROMPT:


#Create a Python class named Product with attributes: name, price, quantity. #Use an __init__ method to initialize these attributes. #Also add a method calculate_value() that returns price * quantity.
Empty cell
Certainly! I will create the Product class with the specified attributes and method in the selected cell.
I have created the Product class for you. Would you like me to show you how to use it by creating a Product object and calculating its value?
What can I help you build?

OUTPUT:


Welcome To Colab
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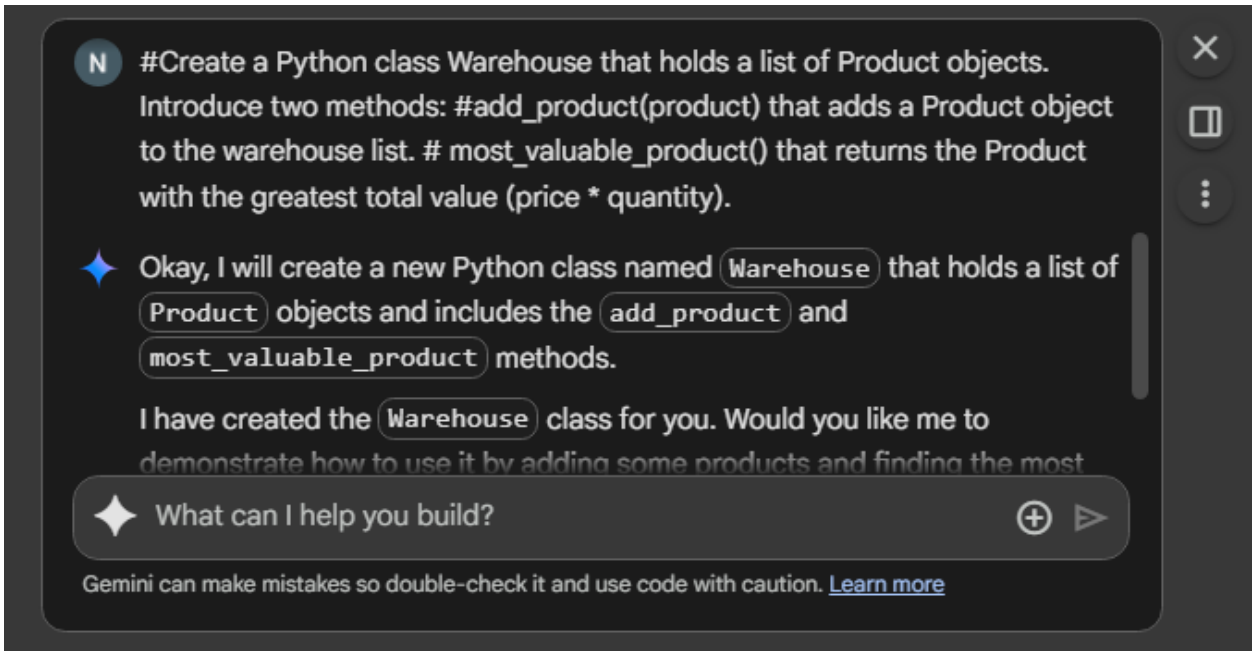
To learn more, check out the Gemini cookbook or visit the Gemini API documentation.
[10] #Create a Python class named Product with attributes: name, price, quantity.
#Use an __init__ method to initialize these attributes.
#Also add a method calculate_value() that returns price * quantity.
class Product:
def __init__(self, name, price, quantity):
self.name = name
self.price = price
self.quantity = quantity
def calculate_value(self):
return self.price * self.quantity

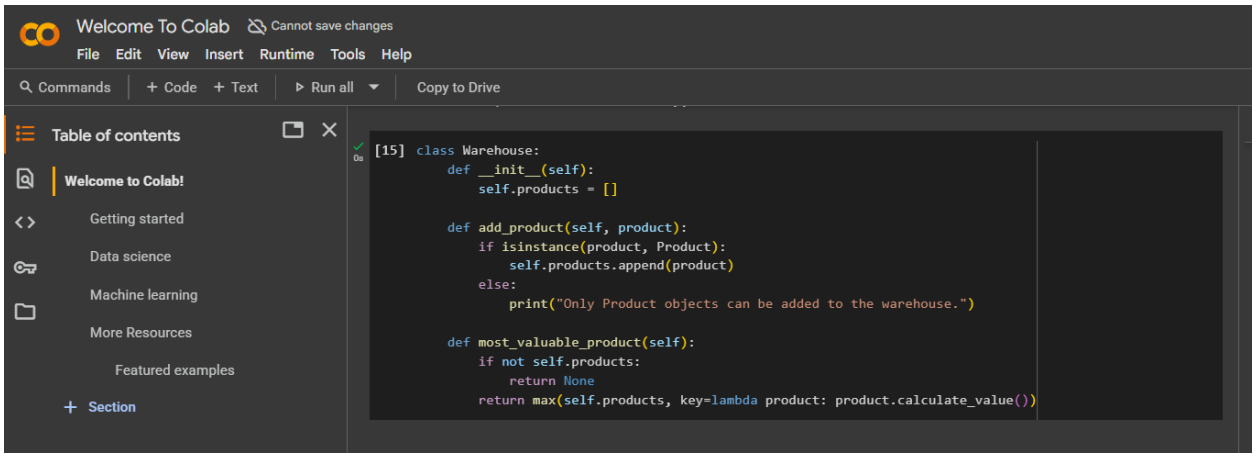
#TASK-2

Define a Warehouse class with a list of Product objects.
• Use code completion to help implement:
○ A method to add a product.
○ A method to display the most valuable product.

PROMPT:



OUTPUT:



SUMMARY:

In this task, I had to create two classes in Python: Product and Warehouse. The Product class had name, price, and quantity, and a method to calculate total value. The Warehouse class had to keep a list of products, allow adding new products, and show the most valuable product.

I used Git Hub Copilot for this. When I started writing the code, Copilot gave me suggestions automatically. It was a useful and time-saving experience.