# **Assignment**

## Tasks to be completed are as follows:

### 1. Setup AI Coding Tool:

- Install and configure GitHub Copilot or Kite with VS Code or JetBrains IDE.
- Enable real-time code suggestions.

## 2. 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.

#### 3. Create Another Class:

- Define a Warehouse class with a list of Product objects.
- Use code suggestions to help implement:
  - $\circ$  A method to add a product.
  - o A method to display the total value of all products.

#### 4. Reflection:

- Identify how much of the code was completed by AI and what manual edits were needed.
- Comment on the relevance and accuracy of AI suggestions.

#### 5. Presentation:

 VS Code with GitHub Copilot or Cursor API and/or Google Colab with Gemini.

#### **Deliverables:**

- 1. Python script with both classes and comments on AI-generated suggestions.
- 2. Short report (1 page) summarizing your experience with AI code completion.

