SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE		DEPARTMENT OF COMPUTER SCIENCE ENGINEERING	
Program Name: B. Tech		**Assignment Type: Lab**	**Academic Year:**2025-2026
Course Coordinator Name		Venkataramana Veeramsetty	
Instructor(s)Name		1. Dr. Mohammed Ali Shaik 2. Dr. T Sampath Kumar 3. Mr. S Naresh Kumar 4. Dr. V. Rajesh 5. Dr. Brij Kishore 6. Dr Pramoda Patro 7. Dr. Venkataramana 8. Dr. Ravi Chander 9. Dr. Jagjeeth Singh	
Course Code	24CS002PC215	**Course Title**	AI Assisted Coding
Year/Sem	II/I	**Regulation**	R24
Date and Day of Assignment	06-08-2025	**Time(s)**	
Duration	2 Hours	**Applicable to Batches**	
AssignmentNumber:6.5(Present assignment number)/**24**(Total number of assignments)			

Q.No.	Question	*ExpectedTime to complete*
1	**Lab 6: AI-Based Code Completion: Working with suggestions for classes, loops, conditionals** Lab Assignment 1: Intelligent Code Completion for Object-Oriented Programming **Objective:** To explore AI-powered code assistants for writing Python classes, constructors, and methods through intelligent suggestions. Suppose that you are hired as an intern at a tech company that develops inventory management systems. Your manager asks you to create a **Product** class and a **Warehouse** class with some basic methods. You have decided to use AI-powered code suggestions to help speed up development and reduce syntax errors. Tasks to be completed are as below **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.	15.08.2025 EOD

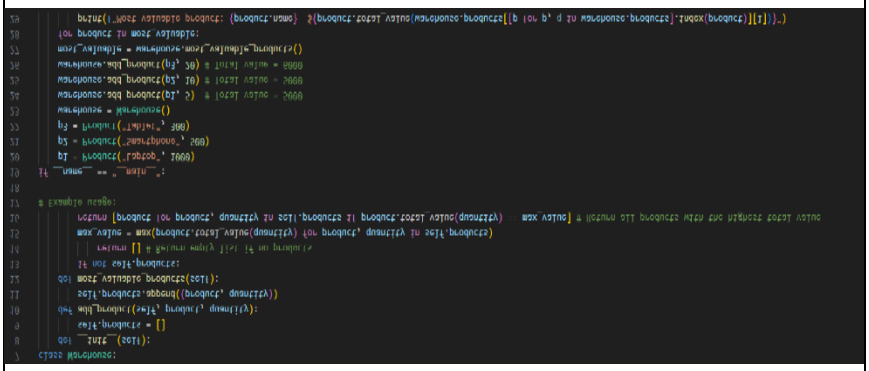
assignment65.py X

assignment65.py > ...

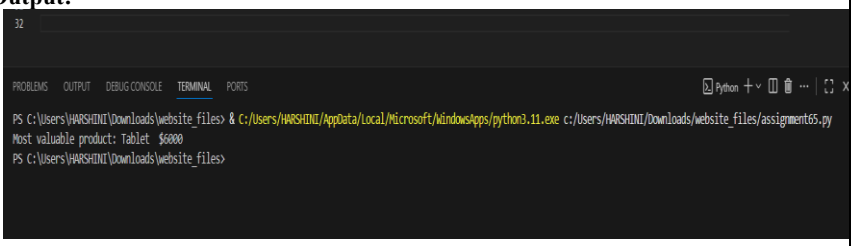
```
class Product:
    def __init__(self, name, price):
        self.name = name
        self.price = price
    def total_value(self, quantity):
        return self.price * quantity
```

3. Create Another Class:

- 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.
  -



Output:



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.

	Requirements: • VS Code with Github Copilot or Cursor API and/or Google Colab with Gemini **Deliverables:** • Python script with both classes and comments on AI-generated suggestions. • Short report (1 page) summarizing your experience with AI code completion. .	