**Name:Abhishekh Verma**

**Batch=06**

**2403A510H1**

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| **SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE** | | | | | **DEPARTMENT OF COMPUTER SCIENCE ENGINEERING** | | | |
| **Program Name:** B. Tech | | | | **Assignment Type: Lab** | | | **AcademicYear:**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 | | | | |
| **CourseCode** | | | 24CS002PC215 | **CourseTitle** | | 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** | | 24CSBTB01 To 24CSBTB39 | | |
| **AssignmentNumber:1.5**(Present assignment number)/**24**(Total number of assignments) | | | | | | | | |
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|  | **Q.No.** | **Question** | | | | | | ***ExpectedTime***  ***to complete*** |  |
|  | 1 | **Lab 1: Environment Setup: GitHub Copilot and VS Code/JetBrains integration**  **Objective:** To install, configure, and test GitHub Copilot in Visual Studio Code (VS Code) and observe how AI-assisted suggestions can enhance code productivity.  You are a software engineering intern starting a new project where code quality and speed are critical. Your team has adopted GitHub Copilot to assist in writing repetitive functions, and even advanced logic. You are tasked with setting up the Copilot environment in your local VS Code and submitting your observations after trying it out on a mini project.  Tasks to be completed are as below  **1. Setup GitHub Copilot:**   * Install **Visual Studio Code** (if not already installed). * Install the **GitHub Copilot extension** from the VS Code Marketplace. * Authenticate with your **GitHub account** (must have access to Copilot free or trial).      * Enable Copilot in the settings and verify its status.   **2. First Use:**   * Create a new Python or JavaScript file. * Start writing a function like add 2 numbers and observe Copilot suggestions. * Accept, reject, or modify suggestions as needed.   3. **Mini Project:**   * Write a small program with functions such as:   + User login simulation   + File I/O operations   + JSON data parsing * Use Copilot to generate parts of the logic, then manually review and refine.   4. **Observation and Report:**   * Record your experience: What kind of suggestions did Copilot offer? Were they accurate? How much time did it save?   ANS: Sometime it give good annswer but but sometime it gives band one. At one time it give me a code in which there was no call for the functiom  **Requirements:**   * VS Code with Github Copilot or Cursor API and/or Google Colab with Gemini   **Deliverables:**   * Screenshot of Copilot active in VS Code. * Code files for the mini project. * A short report (1 page) summarizing: * Setup steps * Experience using Copilot | | | | | | 01.07.2025 EOD |  |