**Name:Abhishekh Verma**

**Batch=06**

**2403A510H1**

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| **SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE** | | | | | **DEPARTMENT OF COMPUTER SCIENCE ENGINEERING** | | | | |
| **ProgramName:**B. Tech | | | | **Assignment Type: Lab** | | | **AcademicYear:**2025-2026 | | |
| **CourseCoordinatorName** | | | | Venkataramana Veeramsetty | | | | | |
| **Instructor(s)Name** | | | | |  | | --- | | Dr. V. Venkataramana (Co-ordinator) | | Dr. T. Sampath Kumar | | Dr. Pramoda Patro | | Dr. Brij Kishor Tiwari | | Dr.J.Ravichander | | Dr. Mohammand Ali Shaik | | Dr. Anirodh Kumar | | Mr. S.Naresh Kumar | | Dr. RAJESH VELPULA | | Mr. Kundhan Kumar | | Ms. Ch.Rajitha | | Mr. M Prakash | | Mr. B.Raju | | Intern 1 (Dharma teja) | | Intern 2 (Sai Prasad) | | Intern 3 (Sowmya) | | NS\_2 ( Mounika) | | | | | | |
| **CourseCode** | | | 24CS002PC215 | **CourseTitle** | | AI Assisted Coding | | | |
| **Year/Sem** | | | II/I | **Regulation** | | R24 | | | |
| **Date and Day**  **of Assignment** | | | Week1 - Wednesday | **Time(s)** | |  | | | |
| **Duration** | | | 2 Hours | **Applicableto**  **Batches** | | 24CSBTB01 To 24CSBTB39 | | | |
| **AssignmentNumber:1.3**(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 Integration  **Lab Objectives:**   * To install and configure GitHub Copilot in Visual Studio Code. * To explore AI-assisted code generation using GitHub Copilot. * To analyze the accuracy and effectiveness of Copilot's code suggestions. * To understand prompt-based programming using comments and code context   **Lab Outcomes (LOs):**  After completing this lab, students will be able to:   * Set up GitHub Copilot in VS Code successfully. * Use inline comments and context to generate code with Copilot. * Evaluate AI-generated code for correctness and readability. * Compare code suggestions based on different prompts and programming styles.   **Task Description#1**   * Install and configure GitHub Copilot in VS Code. Take screenshots of each step.   **Step 1: Download and install anaconda software.**  **Step 2:now open vs code in anaconda app.**    **After opening vs code Add Github copilot to your vs code .And then setup.**    **Expected Output#1**   * Install and configure GitHub Copilot in VS Code. Take screenshots of each step.   **Task Description#2**   * Use Copilot to generate a is\_prime() Python function**.**   **Prompt:write a python function to check whether a number is prime or not.**    **Expected Output#2**   * Function to check primality with correct logic. * **Output**     **Task Description#3**   * Write a comment like # Function to reverse a string and use Copilot to generate the function.   **Prompt:python function to reverse a string**    **Expected Output#3**   * Auto-completed reverse function     **Task Description#4**   * Generate both recursive and iterative versions of a factorial function using comments..   **Expected Output#4**   * Two working factorial implementations     **Task Description#5**   * Use Copilot to find the largest number in a list. Assess code quality and efficiency.   **Prompt:Give me a python code to find the largest number in the list.**    **Expected Output#5**   * A valid function with your review     **Note: Report should be submitted a word document for all tasks in a single document with prompts, comments & code explanation, and output and if required, screenshots**  **Evaluation Criteria:**   | **Criteria** | **Max Marks** | | --- | --- | | Successful Setup of Copilot (Task #1) | 0.5 | | is\_prime() Python function (Task #2) | 0.5 | | Reverse a string function (Task #3) | 0.5 | | Factorial Function (Task #4) | 0.5 | | Find the largest number (Task #5) | 0.5 | | **Total** | **2.5 Marks** | | | | | | | Week1 – Wed  nesday |  |