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| **SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE** | | | | | **DEPARTMENT OF COMPUTER SCIENCE ENGINEERING** | | | | |
| **ProgramName:**B. Tech | | | | **SET-B** | | | **AcademicYear:**2025-2026 | | |
| **Roll No.** | | | |  | | | | | |
| **Instructor(s)Name** | | | | 1. Dr. Venkataramana 2. Dr. Ch. Sridhar 3. Mr. Kundan Kumar | | | | | |
| **CourseCode** | | | 24CS002PC215 | **CourseTitle** | | AI Assisted Coding | | | |
| **Year/Sem** | | | II/I | **Regulation** | | R24 | | | |
| **Date and Day**  **of Assignment** | | | 22.08.2025 | **Time(s)** | | 01.00PM To 03.00PM | | | |
| **Duration** | | | 2 Hours | **Applicableto**  **Batches** | | 24BTCAIAIB09, 24BTCAIAIB10 | | | |
| **Lab Test :1**(Present test number)/**4**(Total number of tests) | | | | | | | | | |
|  | | | | | | | | | |
|  | **Q.No.** | **Question** | | | | | | ***ExpectedTime***  ***to complete*** |  |
|  | 1 | **Task Description#1**   * Write python program for a function **factorial\_febo(n)** that return both factorial of given number and Fibonacci series as per input “n”   Prompt **:** Write a Python program that defines a function factorial\_febo(n) which takes an integer n as input and returns two results:  The factorial of n.  The Fibonacci series up to n terms.  I want user input.      **Expected Output#1**   * **factorial\_febo(n) and output**     **Task Description#2**   * Write Python program in cursor AI for **student class** with attributes like Name, Roll no, Marks and also construct a method i.e., **display\_details** to display name, rollno, marks and grades       **Prompt** : "Write a Python program to define a class Student with attributes name, rollno, and marks. Implement a method display\_details() to display the student’s name, roll number, marks, and grade. The grade should be assigned based on the following classification:   * 90–100 → A+ * 75–89 → A * 60–74 → B * 50–59 → C * Below 50 → F (Fail)"     **Expected Output#2**   * Student Class and Display Details     **Note: Report should be submitted a word document for all tasks in a single document with prompts, comments & code explanation, and output screenshots**  **Evaluation Criteria:**   | **Criteria** | **Max Marks** | | --- | --- | | Factorial Function (Task#1) | 5 | | Sorting Function (Task#2) | 5 | | Viva | 5 | | **Total** | **15 Marks** | | | | | | | 22.08.2025 03.00PM |  |