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| **SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE** | | | | | **DEPARTMENT OF COMPUTER SCIENCE ENGINEERING** | | | | |
| **Program Name:** M. Tech/MCA | | | | **Assignment Type: Lab** | | | **AcademicYear:**2025-2026 | | |
| **Course Coordinator Name** | | | | Venkataramana Veeramsetty | | | | | |
| **Course Code** | | | 24CS002PC215 | **Course Title** | | AI Assisted Problem Solving Using Python | | | |
| **Year/Sem** | | | I/I | **Regulation** | | R24 | | | |
| **Date and Day**  **of Assignment** | | | Week1 - Tuesday | **Time(s)** | |  | | | |
| **Duration** | | | 2 Hours | **Applicable to**  **Batches** | | M. Tech/MCA | | | |
| **AssignmentNumber:03.3**(Present assignment number)/**24**(Total number of assignments) | | | | | | | | | |
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|  | **Q.No.** | **Question** | | | | | | ***ExpectedTime***  ***to complete*** |  |
|  | 1 | **Application for TGNPDCL**  **Objective:** Build an application using Python program for TGNPDCL, to generate the bill based on energy consumption and type of customer with the help of AI tools.  Build a python application as per below instructions   * Read all the required data like PU,CU and Type of customer * Calculate bill amount based on number of units consumed, type of customer and other charges * Finally print the values of EC(Energy Charges),FC(Fixed Charges),CC(Customer Char-ges),ED(Electricity Duty Charges),bill as per expected output   **Requirements:**   * VS Code with Github Copilot and/or Google Colab with Gemini * Students should bring power bill from their home   **Deliverables:**   * Print energy bill for given inputs and verify with bill taken by students   **Prompt**:  Build a python application as per below instructions Read all the required data like PU,CU and Type of customer  Calculate bill amount based on number of units consumed, type of customer and other charges Finally print the values of EC(Energy Charges),FC(Fixed Charges),CC(Customer Char-ges),ED(Electricity Duty Charges),bill as per expected output. 0-50 units → ~ ₹ 1.95 per unit, fixed charge ~ ₹ 10/kW.  51-100 units → ~ ₹ 3.10 per unit (domestic).  101-200 units → ~ ₹ 4.80 per unit.  Above 300/400 units → rates go up to ~ ₹ 9-10 per unit in some slabs. redo the program based on this units and price | | | | | | Week2 - Wednesday |  |