|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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) | | | | | | | | | |
|  | | | | | | | | | |
|  | **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   **Note:**  **I have considered an original TGNPDCL receipt based on that developed the application using VS code with Github Copilot**  **Referred Original receipt:**      **Output:**    The Bill Amount In Both The Cases(original receipt and the developed Application) is same i.e 363  From the referred Receipt, (For detailed reference)  Price Per Unit(PU) = Energy Charges(EC) / Units Consumed  =2.4697    ed\_rate = (Electricity Duty(ED) / Energy Charges(EC)) \* 100  =2.43% | | | | | | Week2 - Wednesday |  |