



School of Computer Science and AI, SR University

AI Assisted Problem Solving Using Python

Academic Year:2025-2026

Assignment Type: Lab
Assig_No. 3

Submitted by:

Name: **Elijah M. Flomo**

Enrol No. **2506B09602**

Course: Msc Computer Science

Submitted to:

Name: Venkataramana Veeramsetty

Title: Course Instructor

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User Input Output

```
➡ Available customer types: ['PU', 'CU']
Enter the total units consumed: 4
Enter your customer type (e.g., PU, CU): pu
Units consumed: 4.0
Customer type: pu
```

```
➡ Energy Charges (EC): 20.00
Fixed Charges (FC): 50.00
Customer Charges (CC): 20.00
Electricity Duty (ED): 4.50
```

Summar of Details Output

```
➡
--- TGNPDCL Energy Bill ---
Units Consumed: 4.0
Customer Type: PU
-----
Energy Charges (EC):    Rs 20.00
Fixed Charges (FC):    Rs 50.00
Customer Charges (CC): Rs 20.00
Electricity Duty (ED): Rs  4.50
-----
Total Bill Amount:      Rs 94.50
-----
```

Verify Bills output

```
➡ Do you want to verify the calculated bill against your physical bill? (yes/no): yes

Please enter the values from your physical bill:
Energy Charges (EC): 65
Fixed Charges (FC): 45
Customer Charges (CC): 7
Electricity Duty (ED): 9

--- Bill Verification ---
Comparing calculated values with physical bill values:
Energy Charges (EC): Discrepancy (Calculated: Rs 20.00, Physical: Rs 65.00)
Fixed Charges (FC): Discrepancy (Calculated: Rs 50.00, Physical: Rs 45.00)
Customer Charges (CC): Discrepancy (Calculated: Rs 20.00, Physical: Rs 7.00)
Electricity Duty (ED): Discrepancy (Calculated: Rs 4.50, Physical: Rs 9.00)
Total Bill Amount: Discrepancy (Calculated: Rs 94.50, Physical: Rs 126.00)
```