

SR UNIVERSITY

ASSIGNMENT-3

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TASK 1

GIVEN PROMPT

Lab 3: Application for TGNPDCL – Electricity Bill Generation Using Python & AI Tools Lab Objectives • To design a real-world electricity billing application using Python • To use AI-assisted coding tools for logic generation and optimization • To understand conditional logic and arithmetic operations • To generate structured billing output similar to utility bills Lab Outcomes (LOs) After completing this lab, students will be able to: Week2 - Wednesday • Read and validate user input in Python • Apply conditional logic for tariff-based billing • Use AI tools to assist in program development • Calculate and display electricity bill components • Build a complete real-time application. The above is the context Task 1: AI-Generated Logic for Reading Consumer Details Scenario An electricity billing system must collect accurate consumer data. Task Description Use an AI tool (GitHub Copilot / Gemini) to generate a Python program that:

- Reads:
 - Previous Units (PU)
 - Current Units (CU)
 - Type of Customer
- Calculates units consumed
- Implements logic directly in the main program (no functions)

Expected Output • Correct input reading • Units consumed calculation • Screenshot showing AI-generated code • Sample input and output we have to do task 1 the details must be created in code itself , about 15 entry every entry must be different ask the questions if u have any doubts

CODE

```
1 # TGNPDCL Electricity Bill Generation - Task 1
2 # Customer Type: Domestic (LT-I)
3
4 print("TGNPDCL ELECTRICITY BILL GENERATION - DOMESTIC\n")
5
6 # Hardcoded consumer data (15 different entries)
7 consumers = [
8     ("Ramesh Kumar", 120, 165),
9     ("Sita Devi", 80, 130),
10    ("Anil Reddy", 200, 260),
11    ("Priya Sharma", 50, 90),
12    ("Kiran Rao", 300, 380),
13    ("Sunitha", 95, 140),
14    ("Mahesh", 400, 520),
15    ("Lakshmi", 60, 100),
16    ("Arjun", 150, 210),
17    ("Pooja", 220, 310),
18    ("Vijay", 500, 650),
19    ("Deepika", 70, 115),
20    ("Naveen", 180, 260),
21    ("Suresh", 250, 360),
22    ("Radha", 30, 75)
23 ]
24
25 for name, pu, cu in consumers:
26     units = cu - pu
27
28     # Tariff logic for Domestic (LT-I)
29     if units <= 50:
30         rate = 1.95
31     elif units <= 100:
```

```
31     elif units <= 100:
32         rate = 3.10
33     elif units <= 200:
34         rate = 3.40
35     elif units <= 300:
36         rate = 5.10
37     elif units <= 400:
38         rate = 7.70
39     elif units <= 800:
40         rate = 9.50
41     else:
42         rate = 10.00
43
44     energy_charge = units * rate
45
46     print("Registered Owner : ", name)
47     print("Customer Type : Domestic (LT-I)")
48     print("Previous Units : ", pu)
49     print("Current Units : ", cu)
50     print("Units Consumed : ", units)
51     print("Rate per Unit : Rs.", rate)
52     print("Energy Charges : Rs.", round(energy_charge, 2))
53     print("-" * 40)
54
```

OUTPUT

Output

TGNPDCL ELECTRICITY BILL GENERATION - DOMESTIC

Registered Owner : Ramesh Kumar
Customer Type : Domestic (LT-I)
Previous Units : 120
Current Units : 165
Units Consumed : 45
Rate per Unit : Rs. 1.95
Energy Charges : Rs. 87.75

Registered Owner : Sita Devi
Customer Type : Domestic (LT-I)
Previous Units : 80
Current Units : 130
Units Consumed : 50
Rate per Unit : Rs. 1.95
Energy Charges : Rs. 97.5

Registered Owner : Anil Reddy
Customer Type : Domestic (LT-I)
Previous Units : 200
Current Units : 260
Units Consumed : 60
Rate per Unit : Rs. 3.1
Energy Charges : Rs. 186.0

Registered Owner : Priya Sharma
Customer Type : Domestic (LT-I)
Previous Units : 50
Current Units : 90
Units Consumed : 40

Output**Clear**

```
-----  
Registered Owner : Kiran Rao  
Customer Type   : Domestic (LT-I)  
Previous Units  : 300  
Current Units   : 380  
Units Consumed  : 80  
Rate per Unit   : Rs. 3.1  
Energy Charges  : Rs. 248.0  
-----
```

```
-----  
Registered Owner : Sunitha  
Customer Type   : Domestic (LT-I)  
Previous Units  : 95  
Current Units   : 140  
Units Consumed  : 45  
Rate per Unit   : Rs. 1.95  
Energy Charges  : Rs. 87.75  
-----
```

```
-----  
Registered Owner : Mahesh  
Customer Type   : Domestic (LT-I)  
Previous Units  : 400  
Current Units   : 520  
Units Consumed  : 120  
Rate per Unit   : Rs. 3.4  
Energy Charges  : Rs. 408.0  
-----
```

```
-----  
Registered Owner : Lakshmi  
Customer Type   : Domestic (LT-I)  
Previous Units  : 60  
Current Units   : 100  
Units Consumed  : 40  
Rate per Unit   : Rs. 1.95  
Energy Charges  : Rs. 76.0
```

Output	Clear
<pre>Registered Owner : Arjun Customer Type : Domestic (LT-I) Previous Units : 150 Current Units : 210 Units Consumed : 60 Rate per Unit : Rs. 3.1 Energy Charges : Rs. 186.0 ----- Registered Owner : Pooja Customer Type : Domestic (LT-I) Previous Units : 220 Current Units : 310 Units Consumed : 90 Rate per Unit : Rs. 3.1 Energy Charges : Rs. 279.0 ----- Registered Owner : Vijay Customer Type : Domestic (LT-I) Previous Units : 500 Current Units : 650 Units Consumed : 150 Rate per Unit : Rs. 3.4 Energy Charges : Rs. 510.0 ----- Registered Owner : Deepika Customer Type : Domestic (LT-I) Previous Units : 70 Current Units : 115 Units Consumed : 45 Rate per Unit : Rs. 1.95 Energy Charges : Rs. 87.75</pre>	

TASK 2

Prompt

Task 2: Energy Charges Calculation Based on Units Consumed Scenario Energy charges depend on the number of units consumed and customer type. Task Description Review the AI-generated code from Task 1 and extend it to:

- Calculate Energy Charges (EC)
- Use conditional statements based on:
 - Domestic
 - Commercial
 - Industrial consumers
- Improve readability using AI prompts such as:
 - “Simplify energy charge calculation logic”
 - “Optimize conditional statements”

Expected Output

- Correct EC calculation
- Clear conditional logic
- Original and improved versions (optional)
- Sample execution results do u understand ask questions

Code

```
# Task 2: Energy Charges Calculation Based on Units Consumed
```

```

# Combined program for Domestic, Commercial, and Industrial consumers

print("TGNPDCL ENERGY CHARGE CALCULATION\n")

# Consumer data: (Name, Previous Units, Current Units, Consumer Type)
consumers = [
    ("Ramesh Kumar", 120, 165, "Domestic"),
    ("Sita Devi", 80, 140, "Domestic"),
    ("Anil Reddy", 200, 260, "Domestic"),
    ("Priya Stores", 50, 120, "Commercial"),
    ("City Mart", 300, 420, "Commercial"),
    ("Sai Industries", 1000, 1180, "Industrial"),
    ("Lakshmi", 30, 90, "Domestic"),
    ("Mega Mall", 600, 760, "Commercial"),
    ("Steel Works", 2000, 2250, "Industrial"),
    ("Radha", 70, 115, "Domestic"),
    ("Kiran Shop", 40, 95, "Commercial"),
    ("Power Plastics", 1500, 1650, "Industrial"),
    ("Sunitha", 95, 145, "Domestic"),
    ("Ravi Traders", 110, 190, "Commercial"),
    ("Agro Mills", 800, 980, "Industrial")
]

```

for name, pu, cu, ctype in consumers:

```
    units = cu - pu
```

Energy Charge calculation based on consumer type

```
if ctype == "Domestic":
```

```
    if units <= 50:
```

```
        rate = 1.95
```

```
    elif units <= 100:
```

```
        rate = 3.10
```

```
    elif units <= 200:
```

```
        rate = 3.40
```

```
    elif units <= 300:
```

```
        rate = 5.10
```

```
    elif units <= 400:
```

```
        rate = 7.70
```

```
    elif units <= 800:
```

```
        rate = 9.50
```

```

else:
    rate = 10.00

elif ctype == "Commercial":
    if units <= 50:
        rate = 7.00
    else:
        rate = 8.50

elif ctype == "Industrial":
    rate = 7.70

energy_charge = units * rate

print("Registered Owner :", name)
print("Consumer Type  :", ctype)
print("Previous Units  :", pu)
print("Current Units   :", cu)
print("Units Consumed  :", units)
print("Rate per Unit   : Rs.", rate)
print("Energy Charges   : Rs.", round(energy_charge, 2))
print("-" * 45)

```

Output

TGNPDCL ENERGY CHARGE CALCULATION

Registered Owner : Ramesh Kumar
 Consumer Type : Domestic
 Previous Units : 120
 Current Units : 165
 Units Consumed : 45
 Rate per Unit : Rs. 1.95
 Energy Charges : Rs. 87.75

Registered Owner : Sita Devi
 Consumer Type : Domestic
 Previous Units : 80

Current Units : 140
Units Consumed : 60
Rate per Unit : Rs. 3.1
Energy Charges : Rs. 186.0

Registered Owner : Anil Reddy
Consumer Type : Domestic
Previous Units : 200
Current Units : 260
Units Consumed : 60
Rate per Unit : Rs. 3.1
Energy Charges : Rs. 186.0

Registered Owner : Priya Stores
Consumer Type : Commercial
Previous Units : 50
Current Units : 120
Units Consumed : 70
Rate per Unit : Rs. 8.5
Energy Charges : Rs. 595.0

Registered Owner : City Mart
Consumer Type : Commercial
Previous Units : 300
Current Units : 420
Units Consumed : 120
Rate per Unit : Rs. 8.5
Energy Charges : Rs. 1020.0

Registered Owner : Sai Industries
Consumer Type : Industrial
Previous Units : 1000
Current Units : 1180
Units Consumed : 180
Rate per Unit : Rs. 7.7
Energy Charges : Rs. 1386.0

Registered Owner : Lakshmi
Consumer Type : Domestic
Previous Units : 30

Current Units : 90
Units Consumed : 60
Rate per Unit : Rs. 3.1
Energy Charges : Rs. 186.0

Registered Owner : Mega Mall
Consumer Type : Commercial
Previous Units : 600
Current Units : 760
Units Consumed : 160
Rate per Unit : Rs. 8.5
Energy Charges : Rs. 1360.0

Registered Owner : Steel Works
Consumer Type : Industrial
Previous Units : 2000
Current Units : 2250
Units Consumed : 250
Rate per Unit : Rs. 7.7
Energy Charges : Rs. 1925.0

Registered Owner : Radha
Consumer Type : Domestic
Previous Units : 70
Current Units : 115
Units Consumed : 45
Rate per Unit : Rs. 1.95
Energy Charges : Rs. 87.75

Registered Owner : Kiran Shop
Consumer Type : Commercial
Previous Units : 40
Current Units : 95
Units Consumed : 55
Rate per Unit : Rs. 8.5
Energy Charges : Rs. 467.5

Registered Owner : Power Plastics
Consumer Type : Industrial
Previous Units : 1500

Current Units : 1650
Units Consumed : 150
Rate per Unit : Rs. 7.7
Energy Charges : Rs. 1155.0

Registered Owner : Sunitha
Consumer Type : Domestic
Previous Units : 95
Current Units : 145
Units Consumed : 50
Rate per Unit : Rs. 1.95
Energy Charges : Rs. 97.5

Registered Owner : Ravi Traders
Consumer Type : Commercial
Previous Units : 110
Current Units : 190
Units Consumed : 80
Rate per Unit : Rs. 8.5
Energy Charges : Rs. 680.0

Registered Owner : Agro Mills
Consumer Type : Industrial
Previous Units : 800
Current Units : 980
Units Consumed : 180
Rate per Unit : Rs. 7.7
Energy Charges : Rs. 1386.0

Task 3

Prompt

Task 3: Modular Design Using AI Assistance (Using Functions) Scenario Billing logic must be

reusable for multiple consumers. Task Description Use AI assistance to generate a Python program that:

- Uses user-defined functions to:
 - Calculate Energy Charges
 - Calculate Fixed Charges
- Returns calculated values
- Includes meaningful comments

Expected Output

- Function-based Python program
- Correct EC and FC values
- Screenshots of AI-assisted function generation
- Test cases with outputs

ask any questions if u need

Code

```
# Task 3: Modular Electricity Billing System using Functions
# TGNPDCL Tariff based calculation

# Function to calculate Energy Charges (EC)
def calculate_energy_charge(units, consumer_type):
    ec = 0

    if consumer_type == "Domestic":
        if units <= 50:
            ec = units * 1.95
        elif units <= 100:
            ec = (50 * 1.95) + ((units - 50) * 3.10)
        elif units <= 200:
            ec = (50 * 1.95) + (50 * 3.10) + ((units - 100) * 3.40)
        elif units <= 300:
            ec = (50 * 1.95) + (50 * 3.10) + (100 * 3.40) + ((units - 200) * 5.10)
        elif units <= 400:
            ec = (50 * 1.95) + (50 * 3.10) + (100 * 3.40) + (100 * 5.10) + ((units - 300) * 7.70)
        elif units <= 800:
            ec = (50 * 1.95) + (50 * 3.10) + (100 * 3.40) + (100 * 5.10) + (100 * 7.70) + ((units - 400) * 9.50)
        else:
            ec = (50 * 1.95) + (50 * 3.10) + (100 * 3.40) + (100 * 5.10) + (100 * 7.70) + (400 * 9.50) + ((units - 800) * 10.00)

    elif consumer_type == "Commercial":
        if units <= 50:
            ec = units * 7.00
        else:
            ec = (50 * 7.00) + ((units - 50) * 8.50)
```

```

        elif consumer_type == "Industrial":
            ec = units * 7.70

    return ec

# Function to calculate Fixed Charges (FC)
def calculate_fixed_charge(consumer_type):
    contract_load = 1 # in kW

    if consumer_type == "Domestic":
        return contract_load * 10
    elif consumer_type == "Commercial":
        return contract_load * 70
    elif consumer_type == "Industrial":
        return contract_load * 75

# Hardcoded consumer test cases
consumers = [
    ("Ramesh Kumar", 120, 165, "Domestic"),
    ("Priya Stores", 50, 120, "Commercial"),
    ("Agro Mills", 800, 980, "Industrial"),
    ("Lakshmi", 30, 110, "Domestic"),
    ("City Mart", 200, 350, "Commercial")
]

print("TGNPDCL ELECTRICITY BILL\n")

for name, pu, cu, ctype in consumers:
    units = cu - pu
    ec = calculate_energy_charge(units, ctype)
    fc = calculate_fixed_charge(ctype)
    total = ec + fc

    print("Registered Owner :", name)
    print("Consumer Type   :", ctype)
    print("Previous Units  :", pu)
    print("Current Units   :", cu)
    print("Units Consumed  :", units)

```

```
print("Energy Charges : Rs.", round(ec, 2))
print("Fixed Charges : Rs.", fc)
print("Total Bill : Rs.", round(total, 2))
print("-" * 45)
```

Output

Output

TGNPDCL ELECTRICITY BILL

```
Registered Owner : Ramesh Kumar
Consumer Type : Domestic
Previous Units : 120
Current Units : 165
Units Consumed : 45
Energy Charges : Rs. 87.75
Fixed Charges : Rs. 10
Total Bill : Rs. 97.75
```

```
-----
Registered Owner : Priya Stores
Consumer Type : Commercial
Previous Units : 50
Current Units : 120
Units Consumed : 70
Energy Charges : Rs. 520.0
Fixed Charges : Rs. 70
Total Bill : Rs. 590.0
```

```
-----
Registered Owner : Agro Mills
Consumer Type : Industrial
Previous Units : 800
Current Units : 980
Units Consumed : 180
Energy Charges : Rs. 1386.0
Fixed Charges : Rs. 75
Total Bill : Rs. 1461.0
```

```
-----  
Registered Owner : Lakshmi  
Consumer Type   : Domestic  
Previous Units  : 30  
Current Units   : 110  
Units Consumed  : 80  
Energy Charges  : Rs. 190.5  
Fixed Charges   : Rs. 10  
Total Bill      : Rs. 200.5  
-----
```

```
-----  
Registered Owner : City Mart  
Consumer Type   : Commercial  
Previous Units  : 200  
Current Units   : 350  
Units Consumed  : 150  
Energy Charges  : Rs. 1200.0  
Fixed Charges   : Rs. 70  
Total Bill      : Rs. 1270.0  
-----
```

Task 4

Prompt

Task 4: Calculation of Additional Charges Scenario Electricity bills include multiple additional charges.

Task Description Extend the program to calculate:

- FC – Fixed Charges
- CC – Customer Charges
- ED – Electricity Duty (percentage of EC)

Use AI prompts like:

- “Add electricity duty calculation”
- “Improve billing accuracy”

ask any question if u need Expected Output

- Individual charge values printed
- Correct duty calculation
- Well-structured output
- Verified intermediate results

Code

```

def calculate_energy_charge(units, consumer_type):
    ec = 0

    if consumer_type == "Domestic":
        if units <= 50:
            ec = units * 1.95
        elif units <= 100:
            ec = (50 * 1.95) + ((units - 50) * 3.10)
        elif units <= 200:
            ec = (50 * 1.95) + (50 * 3.10) + ((units - 100) * 3.40)
        elif units <= 300:
            ec = (50 * 1.95) + (50 * 3.10) + (100 * 3.40) + ((units - 200) * 5.10)
        elif units <= 400:
            ec = (50 * 1.95) + (50 * 3.10) + (100 * 3.40) + (100 * 5.10) + ((units - 300) * 7.70)
        elif units <= 800:
            ec = (50 * 1.95) + (50 * 3.10) + (100 * 3.40) + (100 * 5.10) + (100 * 7.70) + ((units - 400) * 9.50)
        else:
            ec = (50 * 1.95) + (50 * 3.10) + (100 * 3.40) + (100 * 5.10) + (100 * 7.70) + (400 * 9.50) + ((units - 800) * 10.00)

    elif consumer_type == "Commercial":
        if units <= 50:
            ec = units * 7.00
        else:
            ec = (50 * 7.00) + ((units - 50) * 8.50)

    elif consumer_type == "Industrial":
        ec = units * 7.70

    return ec

def calculate_fixed_charge(consumer_type):
    if consumer_type == "Domestic":
        return 10
    elif consumer_type == "Commercial":
        return 70
    elif consumer_type == "Industrial":
        return 75

def calculate_customer_charge(consumer_type):
    if consumer_type == "Domestic":
        return 25
    elif consumer_type == "Commercial":
        return 50
    elif consumer_type == "Industrial":
        return 100

def calculate_electricity_duty(ec):
    return ec * 0.05

# Hardcoded test cases
consumers = [
    ("Ramesh Kumar", 120, 165, "Domestic"),
    ("Priya Stores", 50, 120, "Commercial"),
    ("Agro Mills", 800, 980, "Industrial")
]

print("TGNPDCL ELECTRICITY BILL WITH ADDITIONAL CHARGES\n")

for name, pu, cu, ctype in consumers:
    units = cu - pu

```

```

print("TGNPDCL ELECTRICITY BILL WITH ADDITIONAL CHARGES\n")

for name, pu, cu, ctype in consumers:
    units = cu - pu

    ec = calculate_energy_charge(units, ctype)
    fc = calculate_fixed_charge(ctype)
    cc = calculate_customer_charge(ctype)
    ed = calculate_electricity_duty(ec)

    total_bill = ec + fc + cc + ed

    print("Registered Owner :", name)
    print("Consumer Type   :", ctype)
    print("Previous Units  :", pu)
    print("Current Units   :", cu)
    print("Units Consumed  :", units)
    print("Energy Charges   : Rs.", round(ec, 2))
    print("Fixed Charges    : Rs.", fc)
    print("Customer Charges : Rs.", cc)
    print("Electricity Duty : Rs.", round(ed, 2))
    print("Total Bill       : Rs.", round(total_bill, 2))
    print("-" * 50)

```

Output

TGNPDCL ELECTRICITY BILL WITH ADDITIONAL CHARGES

Registered Owner : Ramesh Kumar
 Consumer Type : Domestic
 Previous Units : 120
 Current Units : 165
 Units Consumed : 45
 Energy Charges : Rs. 87.75
 Fixed Charges : Rs. 10
 Customer Charges : Rs. 25
 Electricity Duty : Rs. 4.39
 Total Bill : Rs. 127.14

 Registered Owner : Priya Stores
 Consumer Type : Commercial
 Previous Units : 50
 Current Units : 120
 Units Consumed : 70
 Energy Charges : Rs. 520.0
 Fixed Charges : Rs. 70
 Customer Charges : Rs. 50
 Electricity Duty : Rs. 26.0
 Total Bill : Rs. 666.0

 Registered Owner : Agro Mills
 Consumer Type : Industrial
 Previous Units : 800
 Previous Units : 800
 Current Units : 980
 Units Consumed : 180
 Energy Charges : Rs. 1386.0
 Energy Charges : Rs. 1386.0
 Fixed Charges : Rs. 75
 Customer Charges : Rs. 100
 Electricity Duty : Rs. 69.3
 Total Bill : Rs. 1630.3

Task 5

Prompt

Task 5: Final Bill Generation and Output Analysis Scenario The final electricity bill must present all values clearly. Task Description Develop the final Python application to:

- Calculate total bill: • Total Bill = EC + FC + CC + ED
- Display:
 - Energy Charges (EC)
 - Fixed Charges (FC)
 - Customer Charges (CC)
 - Electricity Duty (ED)
 - Total Bill Amount
- Analyze the program based on:
 - Accuracy
 - Readability
 - Real-world applicability
- Expected Output
- Complete electricity bill output
- Neatly formatted display
- Sample input/output
- Short analysis paragraph

Code

```
1 def calculate_energy_charge(units, consumer_type):
2     ec = 0
3
4     if consumer_type == "Domestic":
5         if units <= 50:
6             ec = units * 1.95
7         elif units <= 100:
8             ec = (50 * 1.95) + ((units - 50) * 3.10)
9         elif units <= 200:
10            ec = (50 * 1.95) + (50 * 3.10) + ((units - 100) * 3.40)
11        elif units <= 300:
12            ec = (50 * 1.95) + (50 * 3.10) + (100 * 3.40) + ((units - 200) * 5.10)
13        else:
14            ec = (50 * 1.95) + (50 * 3.10) + (100 * 3.40) + (100 * 5.10) + ((units - 300) * 7.70)
15
16    elif consumer_type == "Commercial":
17        if units <= 50:
18            ec = units * 7.00
19        else:
20            ec = (50 * 7.00) + ((units - 50) * 8.50)
21
22    elif consumer_type == "Industrial":
23        ec = units * 7.70
24
25    return ec
26
27
28 def calculate_fixed_charge(consumer_type):
29     if consumer_type == "Domestic":
30         return 10
31     elif consumer_type == "Commercial":
32         return 70
33     elif consumer_type == "Industrial":
34         return 75
```

```

8 def calculate_customer_charge(consumer_type):
9     if consumer_type == "Domestic":
10         return 25
11     elif consumer_type == "Commercial":
12         return 50
13     elif consumer_type == "Industrial":
14         return 100
15
16
17 def calculate_electricity_duty(ec):
18     return ec * 0.05
19
20
21 # Sample consumer (hardcoded for demonstration)
22 name = "Agro Mills"
23 previous_units = 800
24 current_units = 980
25 consumer_type = "Industrial"
26
27 units_consumed = current_units - previous_units
28
29 ec = calculate_energy_charge(units_consumed, consumer_type)
30 fc = calculate_fixed_charge(consumer_type)
31 cc = calculate_customer_charge(consumer_type)
32 ed = calculate_electricity_duty(ec)
33
34 total_bill = ec + fc + cc + ed
35
36 print("\n===== TGNPDCL ELECTRICITY BILL =====\n")
37 print("Registered Owner : ", name)
38 print("Consumer Type : ", consumer_type)
39 print("Previous Units : ", previous_units)
40 print("Current Units : ", current_units)
41 print("Units Consumed : ", units_consumed)
42 print("-----")
43 print("Energy Charges (EC): Rs.", round(ec, 2))
44 print("Fixed Charges (FC) : Rs.", fc)
45 print("Customer Charges : Rs.", cc)
46 print("Electricity Duty : Rs.", round(ed, 2))
47 print("-----")
48 print("TOTAL BILL AMOUNT : Rs.", round(total_bill, 2))
49 print("\n=====")
50
51

```

Output

```

===== TGNPDCL ELECTRICITY BILL =====

Registered Owner : Agro Mills
Consumer Type : Industrial
Previous Units : 800
Current Units : 980
Units Consumed : 180
-----
Energy Charges (EC): Rs. 1386.0
Fixed Charges (FC) : Rs. 75
Customer Charges : Rs. 100
Electricity Duty : Rs. 69.3
-----
TOTAL BILL AMOUNT : Rs. 1630.3
-----
PS C:\Users\koushik reddy\Desktop\python practice>
```