

SCHOOL OF COMPUTING

SEMESTER I 2020/2021

SECJ1013 PROGRAMMING TECHNIQUE 1 - SECTION 08

**CASE STUDY 1: ELECTRIC USAGE CHARGES**

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**CASE STUDY 1: ELECTRIC USAGE CHARGES**

**Pseudocode for table 1**

1. Start
2. Display “Enter the Voltage: ”
3. Read V
4. If (V >= 1 && V <=50)

3.1 Display “Extra Low Voltage”

1. Else if (V > 50 && V<= 1000)

4.1 Display “Low Voltage”

1. Else if (V > 1000 && V <= 50000)

5.1 Display “Medium Voltage”

1. Else if (V > 50000 && V<= 230000)

6.1 Display “High Voltage”

1. Else if (V > 230000)

7.1 Display “Extra High Voltage”

1. Else

8.1 Display “invalid input!”

1. End if-else-if
2. End

**Pseudocode table 2**

1. Start
2. Display “Enter the Energy value: ”
3. Read Energy
4. If (Energy >= 1 && Energy <= 200)  
    4.1. Calculate Bill  
    Bill = Energy\*0.218

4.2 Go to step 10  
4.3 If (Bill < 3.00)

4.3.1. Bill = Bill\*0

4.3.2 End if

4.3.3 Go to step 11

1. Else if (Energy >=201 && Energy <= 300)  
    5.1. Calculate Bill  
    Bill = (200\*0.218) + (Energy - 200) \*0.334

5.2 Go to step 10

1. Else if (Energy >=301 && Energy <= 600)  
    6.1. Calculate Bill  
    Bill = (200\*0.218) + (100\*0.334) + (Energy - 300) \*0.516

6.2 Go to step 10

1. Else if (Energy >=601 && Energy <= 900)  
    7.1. Calculate Bill  
    Bill = (200\*0.218) + (100\*0.334) + (300\*0.516) + (Energy - 600) \*0.546

7.2 Go to step 10

1. Else if (Energy>=901)  
    8.1. Calculate Bill  
    Bill = (200\*0.218) + (100\*0.334) + (300\*0.516) + (300\*0.546) + (Energy-900) \*0.571

8.2 Go to step 10

1. End if-else-if
2. Display Bill
3. End