

SCHOOL OF COMPUTING

SEMESTER I 2020/2021

SECJ1013 PROGRAMMING TECHNIQUE 1 - SECTION 08

**CASE STUDY 1: ELECTRIC USAGE CHARGES**

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| NAMA | NO MATRIK |
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LECTURER: DR. ADILA FIRDAUS BINTI ARBAIN

DATE OF SUBMISSION: 31st DECEMBER 2020

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| Pseudocode | C++ coding |
| 1. Start 2. Display “Enter the Voltage: ” 3. Read V |  |
| 1. Display “Enter the Energy value: ” 2. Read Energy |  |
| 1. If (V >= 1 && V <=50)   6.1 Display “Extra Low Voltage”   1. Else if (V > 50 && V<= 1000)   7.1 Display “Low Voltage”   1. Else if (V > 1000 && V <= 50000)   8.1 Display “Medium Voltage”   1. Else if (V > 50000 && V<= 230000)   9.1 Display “High Voltage”   1. Else if (V > 230000)   10.1 Display “Extra High Voltage”   1. Else   11.1 Display ‘”invalid input!”   1. End if-else-if |  |
| 1. If (Energy >= 1 && Energy <= 200)   13.1 Calculate Bill  Bill = Energy\*0.218  13.1.1 If (Bill < 3.00)  Bill = Bill\*0  13.2 Display bill   1. End if |  |
| 1. Else if (Energy >=201 && Energy <= 300)   15.1 Calculate Bill  Bill = (200\*0.218) + (Energy - 200)\*0.334  15.2 Display bill   1. Else if (Energy >=301 && Energy <= 600)   16.1 Calculate Bill  Bill = (200\*0.218) + (100\*0.334) + (Energy - 300)\*0.516  16.2 Display bill   1. Else if (Energy >=601 && Energy <= 900)   Calculate Bill   * 1. Bill = (200\*0.218) + (100\*0.334) + (300\*0.516) + (Energy - 600)\*0.546   17.2 Display bill   1. Else if (Energy>=901)   18.1 Calculate Bill  Bill = (200\*0.218) + (100\*0.334) + (300\*0.516) + (300\*0.546) + (Energy-900)\*0.571  18.2 Display bill   1. End if-else 2. End |  |