RCA – Y1

Term 3

FOP Practice

Instructor: APHRODICE RWAGAJU

These tariffs for non-industrial customers have been extracted from the website of REG (https://www.reg.rw/customer-service/tariffs/)

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| CATEGORY | CONSUMPTION (KWH) BLOCK/MONTH | FRW/KWH |
| Residential | [ 0-15] | 89 |
| [>15 – 50] | 212 |
| >50 | 249 |
| Non Residential | [0-100] | 227 |
| >100 | 255 |
| Telecom Towers | All | 201 |
| Water Treatment plants and Water pumping stations | All | 126 |
| Hotels | All | 157 |
| Health Facilities | All | 186 |
| Broadcasters | All | 192 |
| Commercial Data Centers | All | 179 |

Groups of 4 students are required to:

1. Develop a flowchart showing all steps for buying electricity. (Submission date: before 25/4/2021 midnight)
2. Develop a C-Program that can help a user (customer) to buy electricity by entering the cash power number and the amount of money. (Submission date: before 09/5/2021 midnight)

**Requirements**:

* Customer name, customer category and cash power number should be stored in comma separated values (CSV) file.
* Electricity tokens are auto-generated and stored in file with the flag either “**Used**” or “**Unused**” to avoid using the token twice.
* The program should display the total electricity in KWH purchased by the customer to the console.
* If the customer buys more than one time within one month, the discount is tracked and it can’t be applied when he/she exceeded the monthly discount block.