

Assignment 1

Programming Fundamentals

Deadline: 11:55PM, 17th April, 2022

Q1. PAL has three categories of customers: Industrial, Bulk Institutional and Domestic. The rates of these are tabulated below:

| Category | Units | Rate |
|---------------|-----------|---|
| Commercial | 0-1000 | Rs. 0.50 per unit |
| | 1001-2000 | Rs. 500 plus Rs. 1 per unit over 1000 units |
| | 2001-3000 | Rs. 1500 plus Rs. 1.50 per unit over 2000 units |
| | >3000 | Rs. 3000 plus Rs. 2 per unit over 3000 units |
| Institutional | 0-1000 | Rs. 0.75 per unit |
| | 1001-2000 | Rs. 1000 plus Rs. 1 per unit over 1000 units |
| | 2001-3000 | Rs. 1750 plus Rs. 1.50 per unit over 2000 units |
| | >3000 | Rs. 4000 plus Rs. 2 per unit over 3000 units |
| Domestic | 0-100 | Rs. 0.50 per unit |
| | 101-200 | Rs. 50 plus Rs. 1 per unit over 100 units |
| | 201-300 | Rs. 150 plus Rs. 1.50 per unit over 200 units |
| | >300 | Rs. 300 plus Rs. 2 per unit over 300 units |

1. Ask user to enter customer category, Units.
2. Computer the bill as per given Criteria.
3. Print bill in proper format.

Q2. In an industrial unit weight of a package is measured in **Tons, Kilograms, and Grams**. Your program should ask user about total number of packages and then will take weight of each package in **Tons, Kilograms, and Grams**. Add check that total number of packages must not exceed from 100.

Furthermore, create a function that will calculate and **return** total weight of all packages.