**Rent Calculator in Python**

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**Project Overview**

The Rent Calculator is a simple Python program designed to calculate the share of rent, food, and electricity expenses for individuals living together in a shared room, hostel, or flat. It is especially useful for students or working individuals who want to split living costs fairly.

**Purpose**

To automate the calculation of individual contributions toward monthly living expenses, ensuring transparency and fair distribution of shared costs.

**Inputs Required from User**

The program collects the following inputs:

1. **Total Rent** of the room/flat/hostel.
2. **Total Food Cost** (usually for snacks or common food ordered).
3. **Electricity Units Consumed** (in kWh or units).
4. **Electricity Rate per Unit** (in PKR or local currency).
5. **Number of Persons** sharing the room/flat.

**Processing Logic**

* Calculates total electricity bill by multiplying units consumed with the rate per unit.
* Adds rent, food expenses, and electricity bill to get the **total shared cost**.
* Divides this total by the number of people to compute each person's **fair share**.

# Code Example

rent = int(input("Enter your hostel/flat rent = "))

food = int(input("Enter the amount of food ordered = "))

electricity\_spend = int(input("Enter the total of electricity spend = "))

charge\_per\_unit = int(input("Enter the charge per unit = "))

persons = int(input("Enter the number of persons living in room/flat = "))

total\_bill = electricity\_spend \* charge\_per\_unit

output = (food + rent + total\_bill) // persons

print("Each person will pay = ", output)

**Output**

The program displays the final amount **each person has to pay**, equally dividing the total expenses.

**Scope of the Project**

* **Target Users**: Students, roommates, flatmates.
* **Applicable For**: Hostels, apartments, PGs, or rented shared accommodations.
* **Utility**: Fair and quick rent and utility splitting among multiple people.

**Future Improvements (Optional)**

* Adding a graphical interface (GUI) using Tkinter or PyQt.
* Allowing partial shares (e.g., if one person stayed fewer days).
* Exporting the result to a PDF or Excel file.