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**Bootcamp Fundamental OOP Project**

\*it is a must to use OOP concepts

1. **Salary Slip**

A company want to calculate and show the Employees their Salary Slips. The company calculates the salaries as follows: **all the employees** have base salary of $1500 along with fuel allowance and medical allowance.  
**For engineer**, the engineers are paid $7000 annually along with base salary each month.

**For manager**, the fuel and medical allowances are $250 and $1000 respectively. Also, deduct 17% tax is from the salary.

**For HR**, the fuel and medical allowances are $150 and $800 respectively. Also, add 10% of the sum of allowances for telephonic interviews, in the salary.

Write a class **SalarySlip** that will ask the user for his designation and calculate the gross salary.

Which OOP pillar could be implemented here!

1. **Electric Bill**

LESCO wants to calculate electricity bill according to the below rules:

* The program will ask user for total **unit** consumed. Ask the user if he is a registered tax payer.
* **Residential:** If the unit consumed less or equal to 100 units, calculates the total amount of **units\*5. Commercial:** If the unit consumed less or equal to 100 units, calculates the total amount of **units\*8.**
* **Residential:** If theunit consumed are between 100 to 200, then the rate for units consumed after 100 units is 17/per unit. **Commercial:** If theunit consumed are between 100 to 200, then the rate for units consumed after 100 units is 21/per unit.
* If theunit consumed are between 200 to 500, then the rate for units consumed after 200 units is 23/per unit. If the user is a tax payer then use previous rates for this slab.
* **Residential:** If theunit consumed are more than 500, then the rate for units consumed after 500 units is 69/per unit. **Commercial:** If theunit consumed are more than 500, then the rate for units consumed after 500 units is 79/per unit.
* After the calculation, add **17% tax for commercial** and **13% tax for residential** in the calculated amount.
* By default, all the users are non-tax payers.

Suggest and implement which OOP concept could be used here!