Assignment 8

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 the unit consumed are between 100 to 200, then the rate for units consumed after 100 units is 17/per unit. **Commercial:** If the unit consumed are between 100 to 200, then the rate for units consumed after 100 units is 21/per unit.
- If the unit 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 the unit consumed are more than 500, then the rate for units consumed after 500 units is 69/per unit. **Commercial:** If the unit 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.

Write atleast **6 unit tests** for this program