

## TASK 3 - EB bill calculation problem :

### PROGRAM :

```
# Inputs

units_consumed = int(input("Enter units consumed: "))

is_senior_citizen = input("Is senior citizen (True/False): ") == "True"

has_solar_panel = input("Has solar panel (True/False): ") == "True"

payment_mode = input("Payment mode (online/offline): ")

# 1. Base Bill Calculation (Slab System)

bill = 0

if units_consumed <= 100:

    bill = units_consumed * 3

elif units_consumed <= 300:

    bill = (100 * 3) + ((units_consumed - 100) * 5)

else:

    bill = (100 * 3) + (200 * 5) + ((units_consumed - 300) * 8)

# 2. Senior Citizen Discount (10%)

if is_senior_citizen:

    bill = bill - (bill * 0.10)

# 3. Solar Panel Discount

if has_solar_panel:

    if units_consumed <= 250:

        bill -= 500
```

```
else:  
    bill -= 300  
  
# 4. Payment Mode Surcharge  
  
if payment_mode == "offline":  
    if bill < 1000:  
        bill += 50  
  
    else:  
        bill += 100  
  
# 5. Minimum Payable Rule  
  
if bill < 200:  
    bill = 200  
  
# Final Output  
  
print("Final Electricity Bill: ₹", bill)
```

OUTPUT :

```
Enter units consumed: 500  
Is senior citizen (True/False): True  
Has solar panel (True/False): True  
Payment mode (online/offline): online  
Final Electricity Bill: ₹ 2310.0
```