

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