

Program 3: Electricity Bill Calculation

```
# Input
units = int(input("Enter units consumed: "))
is_senior = input("Is senior citizen? (yes/no): ").lower() == "yes"
has_solar = input("Has solar panel? (yes/no): ").lower() == "yes"
payment_mode = input("Payment mode (online/offline): ").lower()

# 1 Base charge (Slab calculation)
if units <= 100:
    bill = units * 3
elif units <= 300:
    bill = (100 * 3) + ((units - 100) * 5)
else:
    bill = (100 * 3) + (200 * 5) + ((units - 300) * 8)

# 2 Senior citizen discount (10%)
if is_senior:
    bill = bill * 0.90    # 10% discount

# 3 Solar panel discount
if has_solar:
    if units <= 250:
        bill = bill - 500
    else:
        bill = bill - 300

# 4 Offline payment surcharge
if payment_mode == "offline":
    if bill < 1000:
        bill += 50
    else:
        bill += 100

# 5 Minimum payable amount ■200
if bill < 200:
    bill = 200

# Output
print("\n----- ELECTRICITY BILL -----")
print("Final Bill Amount: ■", bill)
```