→ Current bill Calculation

18) Read Units Used & Calculate electricity charges

Unit Costs:

		Cost Per Unit
50	→ For first 50 units per unit	⟶ [1 Rupee]
51-150	→ for next 100 units per unit	⟶ [2 Rupees]
151-250	→ for next 100 units per unit	⟶ [3 Rupees]
>250	Anything above 250 units per unit	⟶ [5 Rupee]

Calulate total bill amount ?

A = 40 : ⟶ Cost: 40

#units in each slab

A = 70 : First 50 Units : → 50*1 → 50

for next 100 units : → 20*2 → 40

90

A = 120? First 50 units : → 50*1 → 50

↳ For next 100 units : → 70*2 → 140

190

A = 200

First 50 units ⟶ 50 * 1 → 50

For next 100 units ⟶ 100 * 2 → 200

For next 100 units ⟶ 50 * 3 → 150

400

Slabs	Example	Final Ans
A <= 50	A = 25 ⟶	print(25 * 1)
	A = 40 ⟶	print(40 * 1)
A > 50 && A <= 150	A = 75 ⟶	50 * 1 + (A - 50) * 2 → 100
	A = 100 ⟶	50 * 1 + (A - 50) * 2 → 150
A > 150 && A <= 250	A = 200 ⟶	50 * 1 + 100 * 2 + (A - 150) * 3 → 400
	A = 240 ⟶	50 * 1 + 100 * 2 + (A - 150) * 3 → 520
A > 250	A = 270 ⟶	50 * 1 + 100 * 2 + 100 * 3 + (A - 250) * 5 → 650

(A - 250) = 20

Q): Print first 5 Natural Numbers

output:
1
2
3
4
5

```
public static void main() {
    Sop(1)
    Sop(2)
    Sop(3)
    Sop(4)
    Sop(5)
}
```

or

```
int n = 1;
Sop(n) → 1
n = n+1 // n = 2
Sop(n) → 2
n = n+1 // n = 3
Sop(n) → 3
n = n+1 // n = 4
Sop(n) → 4
n = n+1 // n = 5
Sop(n) → 5
n = n+1 // n = 6
```

loops: → While loop
→ for loops

While loops

```
int n = 1;          → ① Initialize loop variable
while (n <= 5) {    ② Condition on loop variable
    Sop(n)
    n = n+1         → ③ updating loop variable
}
```

// Until while loop condition fails it will keep on iterating

Print first 7 natural numbers in reverse order?