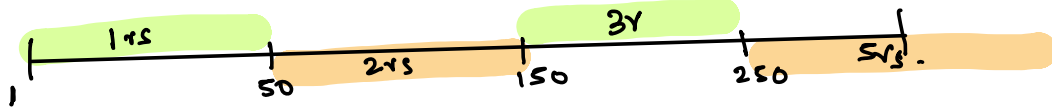


Q17 Electricity Problem

A = no of units.

Rules

- 1 - 50 — for first 50 units → 1 rupee.
- 51 - 150 — for next 100 units → 2 rupees
- 151 - 250 — for next 100 units → 3 rupees.
- > 250 — for above 250 units → 5 rupees.



$A = 40$ 40 × 1 = 40rs

$A = 70$ 50 × 1 = 50 20 × 2 = 40 → 50 + 40 → 90/-

$A = 120$ 50 70
50 × 1 = 50 70 × 2 = 140 → 50 + 140 → 190/- rs.

$A = 200$ 50 100 50
50 × 1 = 50 100 × 2 = 200 50 × 3 = 150 → 400/- ✓

$A = 260$ 50 100 100 10
50 × 1 = 50 100 × 2 = 200 100 × 3 = 300 10 × 5 = 50 → 600/-

$50 \times 1 - (20 \times 2)$
70

$A < 50$

$A > 50$ ✓✓ $A < 150$ 2

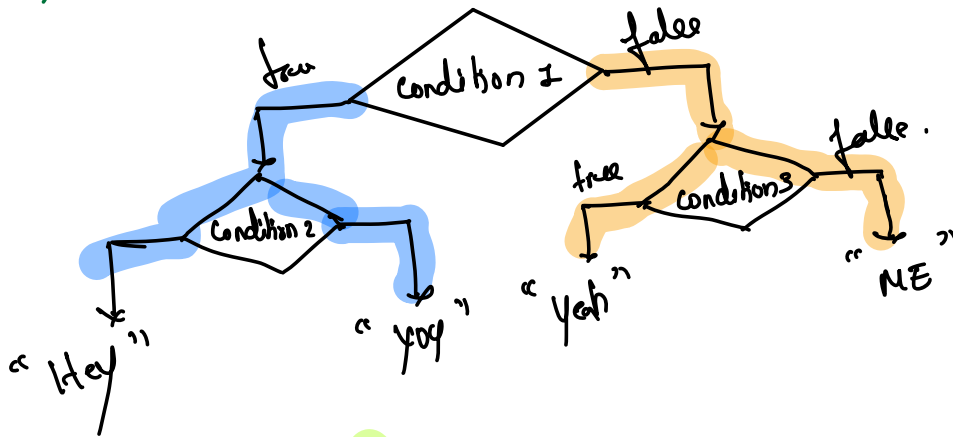
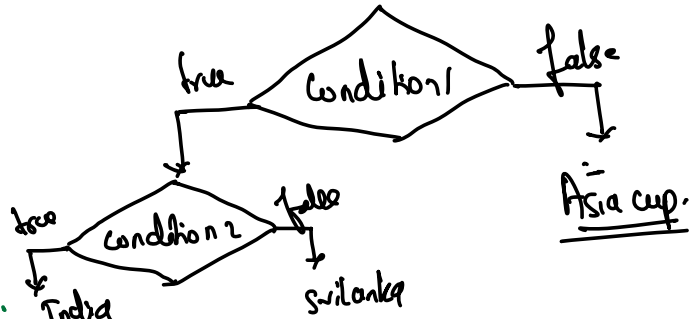
200 $A > 150$ ✓✓ $A < 250$

260 $A > 250$.

→ $A \times 1$
 → $50 \times 1 + (A - 50) \times 2$
 → $50 \times 1 + 100 \times 2 + (A - 150) \times 3$
 → $50 \times 1 + 100 \times 2 + 100 \times 3 + (A - 250) \times 5$
 $50 + 200 + 300 + (260 - 250) \times 5$
 $50 + 200 + 300 + (10 \times 5) = 50$
 600 ✓✓

Nested if else.

```
if (condition 1) {  
    if (condition 2) {  
        sop("India");  
    } else {  
        sop("Srilanka");  
    }  
} else {  
    sop("Asia cup");  
}
```



```
if (condition 1) {  
    if (condition 2) {  
        sop("Hey");  
    } else {  
        sop("yoy");  
    }  
} else {  
    if (condition 3) {  
        sop("Yah");  
    } else {  
        sop("NE");  
    }  
}
```

Given age & salary, print increment of the person

age ≥ 40

sal $< 40k \rightarrow$ increment sal by 30k.

sal $\geq 40k \rightarrow$ increment sal by 10k.

age < 40

sal $\leq 30k \rightarrow$ increment sal by 15k $\rightarrow 1000$

sal $> 30k \rightarrow$ increment sal by 5k.

40, 45,000/- \rightarrow sal + 10k

age sal $\rightarrow 45,000 + 10,000 = 55,000/-$

How Worked
else if?
else if!

```
if (age  $\geq 40$ ) {
```

```
    if (sal  $< 40000$ ) {
```

```
        sop (sal + 30000);
```

```
    } else {
```

```
        sop (sal + 10000);
```

```
    }
```

```
else {
```

```
    if (sal  $\leq 30000$ ) {
```

```
        sop (sal + 15000);
```

```
    } else {
```

```
        sop (sal + 5000);
```

```
    }
```

Scope of variable (local variable)

```
{ int black = 420;
```

```
    {  
        int a = 40;  
        sop(a); ✓  
        ✓ sop(black)  
        {  
            sop(black); ✓  
            int b = 30;  
            sop(b); ✓  
            ✓ sop(a);  
            sop(b); - error  
        }  
    }
```

→ inside {

}

~~sop(a)~~ X Out of scope. error

sop(black) ✓

}

sop(black) X error

```
int res = (int) ( _____ );
```

of

Value reminder → take type casting

code snippet link ↓

<https://www.interviewbit.com/snippet/d93d3fc5cfa253ee7846/>