```
if (4+5= 10) {
         SOP (True)
         else {
                                      Ostput
         SOP (False)
                                     False
                                     True
         SOP ( True)
              n23, y25, 222
            if ( ney de x = 2)
                    Sop(a)
         else if (y = x & y < 2)
                                    Output
             elsc
                  SOP(c)
     Valid marriage age validation
  i) if (g 22 M & ge 22 21) M, 22 - T
else if (g 22 F & ge 22 18) X
a) if (g^{22}M & ge > 21) M, 21
else if (g^{22}F & ge > 18) F, 18 <math>\times
s) if (g = M &A age > 21) ~ Right answer
```

else if 
$$(g^{22}F & ge \neq 18)$$
  
4) if  $(g^{22}M & 11 & ge \neq 21) & M, 5$   
else if  $(g^{22}F & ge \neq 18) \times$ 

Dry Run

Light Run the code with a test case using pen is paper

Test case => Input given to test correctness of code

## Electricity Bill

Given an integer A - vnits of eletricity

consumed

For units [1, 50] = \$\frac{2}{3} \text{ \$0.75 \ / unit}

For units [51, 150] = \$\frac{2}{3} \text{ \$0.75 \ / unit}

For units [151, inf] = \$\frac{2}{3} \text{ \$1.2 \ / unit}

2 units =  $\begin{bmatrix} 1, 2 \end{bmatrix} \rightarrow 0.5$ 60 units =  $\begin{bmatrix} 1, 50 \end{bmatrix} + \begin{bmatrix} 51, 60 \end{bmatrix}$  0.5 0.75200 units =  $\begin{bmatrix} 1, 50 \end{bmatrix} + \begin{bmatrix} 51, 150 \end{bmatrix} + \begin{bmatrix} 151, 200 \end{bmatrix}$  0.5 0.75 1.2 $50 \times 0.5$  +  $100 \times 0.75$  +  $50 \times 12$ 

$$\[ \sqrt{00} \] \] \[ vinits = \] \[ 2] \[ 150] \] \[ \times \] \[ \sqrt{2} \] \[ 0.75 \] \[ 0.75 \] \[ 0.75 \] \[ \times \] \[ \sqrt{2} \] \[ 0.75 \] \[ \times \] \[ \sqrt{2} \] \[ \times \]$$

Bucket	En	Final ans
A \( \sigma \)	25	0.5 x A
A >50 28 A = 150	70	50 x 0.5 + (A-50) x 0.75
A > 150	200	50 x 0.5 + 100 x 0.75+ (A-150) x 1.2

hoops  $int i=1 \qquad int i=1$   $Sof(1) \qquad Sof(i) \qquad \text{while } (i \leq 5)^2$   $Sof(2) \qquad i=i+1 \qquad Sof(i)$   $Sof(3) \qquad Sof(i) \qquad i=i+1$   $Sof(4) \qquad i=i+1 \qquad g$   $Sof(5) \qquad Sof(i)$ 

i = i+)

```
jut i:1 Sop(i)
    i = i + 1 i = i + 1
  9) i 2 1+1 Sop(i)
 2) i 2 2
                i = i+1
                  i i=5 Output i (new)
    int i = 1
    while (i \le 5) \mathcal{E}
     Sorcil
  i = i+1
    Syntan
          Il initialise condition variable
STEP 1
            int iel;
STEP 2 11 Write while loop condition
             while ( condition) 2
       11 Write your logic
Sop(i)
STEP 3
ster 4 /1 Update your condition variable
                   ~ ~ ~ ~ · + /
```

## Class Code: https://www.interviewbit.com/snippet/2cc3cc9c7b1106c46481/