

PAKISTAN → Punjab Afghanistan Kashmir  
IRAN SINDH BALUCHISTAN

Hindu → Regional identity

Sindhu → River

```
if ( 4+5 == 10 ) {  
    SOP("True")  
}  
else {  
    SOP("False")  
}  
SOP("True")
```

False  
True

x 1)  $G == "M" \ \&\& \ age == 21$       M, 22      F, 19  
      $G == "F" \ \&\& \ age == 18$   
x 2)  $G == "M" \ \&\& \ age > 21$       M, 21      F, 18  
      $G == "F" \ \&\& \ age > 18$   
✓ 3)  $G == "M" \ \&\& \ age \geq 21$   
      $G == "F" \ \&\& \ age \geq 18$   
x 4)  $G == "M" \ || \ age \geq 21$       M, 5  
      $G == "F" \ || \ age \geq 18$       F, 0

$x = 3$      $y = 5$      $z = 2$

```

if ( x < y && x < z )
    Sop("a")
else if ( y < x && y < z )
    Sop("b")
else
    Sop("c")

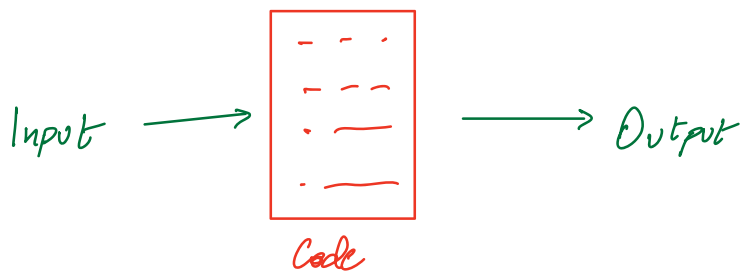
```

C output

## DRY Run

Expected output without actually running the code

## Test Case



A set of (input, output) which is already known to be correct and used to test if the code is correct

## Electricity Bill

Given an integer  $A \rightarrow$  units of electricity that you have consumed

- ①  $[1 - 50] \Rightarrow ₹ 0.5 / \text{unit}$   
 ②  $[51 - 150] \Rightarrow ₹ 0.75 / \text{unit}$   
 ③  $[151 + ] \Rightarrow ₹ 1 / \text{unit}$

Calculate bill amount ?

$$A = 20$$

$$\text{Bill} = ₹ 20 \times 0.5 = ₹ 10$$

$$A = 100$$

$$\begin{aligned} \text{Bill} &= 50 \times 0.5 + 50 \times 0.75 \\ &= 25 + 37.5 \\ &= ₹ 62.5 \end{aligned}$$

$$A = 200$$

$$\begin{aligned} \text{Bill} &= 50 \times 0.5 + 100 \times 0.75 \\ &\quad + 50 \times 1 \\ &= 25 + 75 + 50 \\ &= 150 \end{aligned}$$

Bucket	Ex	Ans
$A \leq 50$	$A = 25$ $A = 20$	$0.5 \times A$

$A > 50 \ \&\&$ $A \leq 150$	$A = 100$ $A = 120$	$0.5 \times 50 + 0.75 \times (A - 50)$
$A > 150$	$A = 200$ $A = 300$	$0.5 \times 50 + 0.75 \times 100 + 1 \times (A - 150)$

```

if ( A ≤ 50 ) {
    SOP ( 0.5 × A )
}
else if ( A > 50 & A ≤ 150 ) {
    SOP ( 0.5 × 50 + 0.75 × (A - 50) )
}
else {
    SOP ( 0.5 × 50 + 0.75 × 100 + 1 × (A - 150) )
}

```

## While loop

```

SOP( "Hello")
SOP( "Hello")
SOP( "Hello")
SOP( "Hello")
SOP( "Hello")
:

```

```

initialise loop variable
while (condition) {
    // Perform the task
    update loop variable
}

```

copy-paste 100 items

```
int i = 1;
while ( i <= 100 ) {
    sop ( "Hello" );
    i = i + 1;
}
```

i	i <= 100	Task	new - i
1	True	Hello	2
2	True	Hello	3
3	True	Hello	4
⋮			
101	False	⇒ Loop breaks	

Code : <https://www.interviewbit.com/snippet/a2e8bf37c0cf442116eb/>