



O/P ~~11~~ 11

- total is 0
- i = 5
- total =  $0 + 5 = 5$
- $i \neq 3$ ,
- total =  $5 - 4 = 4$ .

1st iteration.

- $i = 4$
- total =  $4 + 4 = 8$
- $i \neq 3$
- total =  $8 - 1 = 7$

2nd iteration.

so the code will run up to fifth iteration i.e  $i=1$

- total =  $11 + 1 = 12$
- $i \neq 3$
- total =  $12 - 1 = 11$

The output is 11.

nipp(3)  $\rightarrow$  count = 0 $0 < 5$ 

SOP - 0

count + 1

count  $\neq 3$ 

#

1st iteration.

count = 1

 $1 < 5$ 

SOP - 1.

count + 1 = 2

end iteration.

count = 2

2 &lt; 5

SOP - 2

count++ = 3

2<sup>nd</sup> iteration

count++ = 3 (count = 3)

SOP

SOP/23

After the count value becomes 3 the loop breaks and sop  
the final value 3

so op is 0 1 2 3

ip-4. int i=1

SOP - 1

i++ = 2

2 < 5 - ~~True~~ True2<sup>nd</sup> iteration

i = 2

SOP - 2

i++ = 3

3 &lt; 5 - True

2<sup>nd</sup> iteration

i = 3

SOP - 3

i++ = 4

4 &lt; 5 - True

3<sup>rd</sup> iteration

i = 4

SOP = 4

i++ = 5

5 &lt; 5 - false

4<sup>th</sup> iteration

Here the loop breaks because condition is false and print i=5

so the op = 1 2 3 4 5.

snip 5- num = 1

i = 1

i <= 4

if - i % 2 == 0 - false

else - i = i - 1

so num = 0

~~else~~

i = 1

i <= 4 -

i++ = 2

2 % 2 == 1 - true.

num + = i - 3 -

op is 3.

final op = 3.

snip 6

x = 5

$$\begin{aligned} y &= ++x - x-- + --x + x++ \\ &= 6 - 5 + 3 + 4 \\ y &= 8 \end{aligned}$$

snip 7- a = 10;

b = 5.

$$\begin{aligned} \text{result} &= ++a * b-- - --a + b++ \\ &= 11 * 5 - 10 + 4 \\ &= 55 - 6 \\ &= 49. \end{aligned}$$

Qn 8 - Count = 0

i = 0

$$\begin{aligned} \text{count} &= \text{count} + i++ - ++i \\ &= 0 + 0 - 2 \\ &= -2 \end{aligned}$$

Count = -2

and i = 2

1st iteration

Count = -2

i = 2

$$\begin{aligned} \text{count} &= \text{count} + i++ - ++i \\ &= -2 + 2 - 4 \\ &= -4 \end{aligned}$$

Count = -4

and i = 4.

2nd iteration

Now i = 4 which doesn't satisfy cond' i < 4

Final output = -4.