

2/11/2025

1. Read the integer values perform: bitwise operation

$a=4, b=2$

$a \& b$

$a \& 2$

$a \wedge b$

$\sim a$ is

\Rightarrow #include <stdio.h>

int main()

{

printf("Enter two integer values:");

scanf("%d %d", &a, &b);

printf("\n (a & b) = %d", a & b);

printf("\n (a ^ b) = %d", a ^ b);

printf("\n (a ^ b) = %d", a ^ b);

printf("\n (~a) = %d", ~a);

return 0;

}

Output:-

Enter two integer values: 4, 2

And (a & b) = 0

OR (a ^ b) = 71441108

XOR (a ^ b) = 71441108

Not (~a) = -5

Not (~b) = -71441105

2. $a = 4$, $b = 2$

$u < 2$

$u > 2$

$u <= 2$

$u >= 2$

$u != 2$

```
=> #include <stdio.h>
int main()
{
    int a, b;
    printf("Enter two integer values:");
    scanf("%d %d", &a, &b);
    printf("a > b : %d\n", a > b);
    printf("a > b : %d\n", a > b);
    printf("a <= b : %d\n", a <= b);
    printf("a >= b : %d\n", a >= b);
    printf("a != b : %d\n", a != b);
    return 0;
}
```

Output :-

Enter two integer values : 4, 2

Result of relational operations;

$a < b : 0$

$a > b : 1$

$a <= b : 0$

$a >= b : 1$

$a != b : 1$

3. $a=4, b=2$

$4 \neq 2$

\Rightarrow #include <stdio.h>

int main()

{

int a, b;

printf("Enter two integer values : ");

scanf("%d %d", &a, &b);

if (a == b) {

printf("Both number are equal.\n");

} else {

printf("Both number are not equal.\n");

return 0;

}

Output :-

Enter two integer values : 4, 2

Both numbers are not equal.