QUE: SHORT NOTES ON BITWISE OPERATORS AND TERNARY OPERATOR.

ANS:

1. **BITWISE OPERATOR:** there are 6 bitwise operators

->bitwise AND: It takes two numbers as operands and performs logical AND. The result of AND is 1 only if both the operands are true.

**EXAMPLE:**

int main()

{

int a = 12, b = 25;

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

return 0;

}

=============

->**bitwise OR:** It takes two numbers as operands and performs logical

OR. The result of OR is 1 only if either of one operand is true.

**EXAMPLE:**

int main()

{

int a = 12, b = 25;

printf("Output = %d", a|b);

return 0;

}

================

->**bitwise XOR** : It takes two numbers as operands and performs logical

XOR.The result of XOR is 1 if both the operands are different.

**EXAMPLE:**

int main()

{

int a = 12, b = 25;

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

return 0;

}

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-> **LEFT SHIFT (<<):**shifts the first bit to left ,the second operator

decides the number of places to shift.

**EXAMPLE:**

212 = 11010100 (In binary)

212<<1 = 110101000

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-> **RIGHT SHIFT:** shifts the first bit to right,the second operand

decides the number of places to shift.

**EXAMPLE:**

212 = 11010100 (In binary)

212>>2 = 00110101

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->**bitwise NOT(~):** takes one number and inverts all the bits

**EXAMPLE:**

printf("Output = %d\n",~35);

printf("Output = %d\n",~-12);

OUTPUT:

-36

11

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2. **TENARY OPERATOR:**

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The ternary operator is an operator that takes three arguments.

The first argument is a comparison argument, the second is the

result upon a true comparison, and the third is the result upon a

false comparison.

"Ternary operator is a?b:c"

-it say that the condition a is true b will be executed else c will

be executed.

**Syntax:**

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expression-1 ? expression-2 : expression-3

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**QUE 2:**

/\*PROGRAM ON ARITHMETIC OPERATIONS\*/

#include<stdio.h>

void main()

{

int a ,b;

printf("enter any two numbers");

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

printf(" numbers are:%d %d",a,b);

int sum=a+b;

printf(" sum is:%d",sum);

int sub=a-b;

printf(" sub is:%d",sub);

int mul=a\*b;

printf(" mul is:%d",mul);

int div=a/b;

printf(" div is:%d",div);

int mod=a%b;

printf(" mod is:%d",mod);

}