ASSIGNMENT: OPERATORS

BITWISE OPERATOR:

Bitwise operators are special operator set provided by 'C. ' They are used in bit level programming. These operators are used to manipulate bits of an integer expression. Logical, shift and complement are three types of bitwise operators.

A bitwise operator is an operator used to perform bitwise operations on bit patterns or binary numerals that involve the manipulation of individual bits. Bitwise operations performed on bit flags, which can enable an instance of enumeration type to store any combination of values defined in an enumerator list.

EXAMPLE:

12 = 00001100 (In Binary)

25 = 00011001 (In Binary)

Bit Operation of 12 and 25

  00001100

& 00011001

  _____

  00001000 = 8 (In decimal)

```c
#include <stdio.h>
int main()
{
    int a = 12, b = 25;
    printf("Output = %d", a&b);
    return 0;
}
```

OUTPUT: 8

TERNARY OPERATOR:

The ternary operator is an operator that exists in some programming languages, which takes three operands rather than the typical one or two that most operators use. It provides a way to shorten a simple if else block.

SYNTAX:

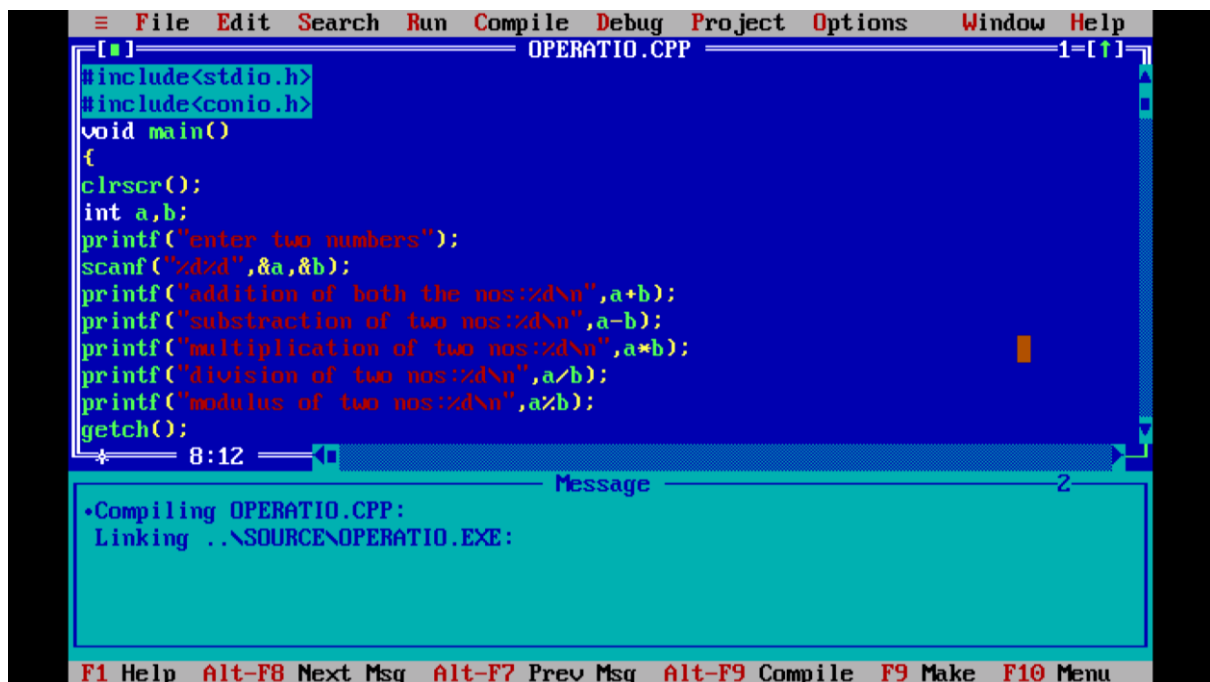condition ? value_if_true : value_if_false

EXAMPLE:

int a=10, b=20, c;

c=(a < b) ? a : b;

printf("%d" ,c);

OUTPUT:

10

C CODE:

```
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┌[■]════════════════════════════ OPERATIO.CPP ══════════════════════1=[↑]┐
{
clrscr();
int a,b;
printf("enter two numbers");
scanf("%d%d",&a,&b);
printf("addition of both the nos:%d\n",a+b);
printf("substraction of two nos:%d\n",a-b);
printf("multiplication of two nos:%d\n",a*b);
printf("division of two nos:%d\n",a/b);
printf("modulus of two nos:%d\n",a%b);
getch();
}



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•Compiling OPERATIO.CPP:
 Linking ..\SOURCE\OPERATIO.EXE:



F1 Help   Alt-F8 Next Msg   Alt-F7 Prev Msg   Alt-F9 Compile   F9 Make   F10 Menu
```

OUTPUT:

```
enter two numbers 7 8
addition of both the nos:15
substraction of two nos:-1
multiplication of two nos:56
division of two nos:0
modulus of two nos:7

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```