## Assignment: operators

(1) Description caround 3-4 lines), syntax and example of

(a) Bitwise operators

(b) ternary operators

(a) Bitwise operators:

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.

Bit wise operators are.

4 - Bitcoise AND

1 - Bitwise OR

1 \_ Bituise XOR.

~ - Bitwise complement

22 - shift left

77 shift night

## Example prom!

#include 2 stdio.by

int main ()

1 int a= 12, b= 251, n= 212, i=1;

printf("Bitwise AND of a & b = 14, a + b);

printf("Bitwise or of a,b: 7/d", alb);

printf ("Bitwise XOR of a,b: 1-d", a1b);

print [ l'Bitwise complement of a: 1.d', wa);

printf ("Right shift of n by %d: %d",

(, n77 i);

Printfl' Left shift of n by old: 1.d",

i, n241);

netum 0;

2

OlD: Birtwise AND of afb: 8

Bitaise OR of a, b = 29

BITWISE XOR of a,b : 21

Bitwise complement of a ?-11

Right shift of n by 1 : 106

Wheft shift of n by 1: 424

## (b) Ternary Operator:

It is also kalled as conditional operator which is a kind of similar to the if else statement. but the conditional operator takes less space and helps to write the if else statement in the shortest way possible:

syntax:

Variable = Expression 1 ? Expression a: Expression 3

Example promit

#include estatio.by

1 int main()

 $\frac{1}{2}$  Int  $n_1=5$ ,  $n_2=10$ , max;

max = (n17 n2) ? n1: n2);

pointfl'hasgest no. blw-l-d and-l-d is-/d',

n,,n2,man);

return o;

3

IP: hargest no. blow 5 and 10 is 10

## (2) As Calculator program :

Hinclude estatio. by

main()

d int a, b;

Printfl' Enter two values: "); Scanf("o/od o/od", fa, fb);

printf ("sum of of old and old is old", a,b,a+b);

printf ("Diffesence of old and old is -ld", a,b,a-b);

printf ("multiplication of old and old is old", a,b,axb);

printf ("Division of old and old is old", a, b,axb);

printf ("modulus of old and old is old", a,b,ab);

Output! Enter two values: 4 5

sum of 4 and 5 is 9

Difference of 4 and 5 is -1

Multiplication of 4 and 5 is 20

Division of 4 and 5 is 0

modulus of 4 and 5 is 4