Task: Operators

(1) Bitwise operators; These operators are used to perform bit operations. Decimal values are converted into binary values which are the sequence of bits and bitwise operators work on these bits-Bitevise operator in C. &-and. 1-or n-not 1-xor cc-left shift >> Right shift Eg: Bitwise (and) #include < stdio.h> int main () int a = 12, b = 25Printf ("Output = 1/d", alb); output = 8. return 0; Bit wise for #include Zsitdio.h> int main () int a = 12, b = 25jPrint f ("output = 1.d", atb); output = 29 return of

```
Bitwise XOR
 #include & stdio. h >.
  int main ()
    int a = 12/6 = 25;
    Print f ("output = 1.d", a16);
    return o
                             output = 21
Bétwise compliment.
  #indude < stdio h >.
   int main ()
   2. Print f ("output = 1.d"), N35);
     Print f(" output = 1/d (n"), N-12);
                              output -36
      return 0;
Shifting operators
  #include Zsadio h>
   int main ()
   in num = 212, 1;
   for (120; ic=2; ++i)
   Print f ("right shift by " di 1 d \n") i, num = >i);
   Prient f("(n));
   for ( = 20 1 1 = 2; ++i).
    Printf("Left shift by 1.d: "din", i, numzzi);
   return 0;
```

Ternary operator;

It is used to execute code based on the result of a binary condition. It takes in a binary condition as input which makes it similar to an if-else' control flaw black. It oreturns a value, behaving similar to a funding Terrary operators in a

\*# include < stdio.h >
int main ()

int main ()

int a=10,b=20,c;

C=(acb)?a;b;

Print (("/d"),();

return 0;

output 200°

Calculator Programe. # include < stdio h >. int main (). charch; float a, b, c; Print f ("enter any two numbers in"); Scanf ("1, d. (-d), &a, & b); Print f(" enter operator (n")); Scanf ("1.0%, & ch); Switch (ch). case (+) Print f (((user entered addition (+) \n))) c = atb; Printf("/, fis addition of (f; (f"), c,a,b); Printf(" 1. f >n", c); break; Case (-) ! Printf ("user entered subtraction (-) (n"); C = a-b; Print f ("(,fis Subtraction of /,fand /f", c, a,b)] Ported of (((1, of \n), c); break; Case (\*); Print f ("aser entered multiplication (\* 'n") } C= ax 6; Print of Wafas mulliplication of 1. fand (4), c, a, b) } porint fcc. fln",c); dereak ,

```
lase (/)!
Print f. ("user entered division (/ \n'));
c= a/b;
Print f (" of is division of " of and " of (n') E sayb);
dreak;
Case (1,).
C= a/0 b. j.
Print f(".1.f is 1. of "/-f and 1-f \n", c, a, b);
doreals;
D'default!
 Printf ("user entered wrong operator\n");
```