Bituise Operator: · AND -> 8 · OR -> 1 · NOT ->~ · XOR -- n WAND In AND operator ise 986 AND Bituise operator both condition need to be true if one in falle the resulting we'll be bool a = + rue; ( bool b = falle; output min be falle as one of them is false. cout << alb ; (2) unt a = 2 int b = 3 first find bit equivalent for the untegen. a = 10 and b = 112-10 output = 2 = 10 i.c bit equivalent 3-11 cout xx asb. (3) unit main () y output=4. int a=5 Explain ser of sense days 1804 unt b=6; Binary equivalent of 5= 101 cout 12 - (a2b), Binary equivalent of 6= reterno. 6=110 100=4

Output = 4

## OR operator

| a | 6    | a/b |
|---|------|-----|
| 0 | 0    | 0   |
| 0 | 1905 |     |
| 1 | 01   |     |

In or uf any of the condition in time than ut weill be + tome else false

Dest Winter

ex: ment main() ? bool a = tour; bool b = false; couter (a/b);

output: True i.e. As any one of the conclition is tous

@ int main 1) < unta=5/10/ 5-10/ unt = 4 1100 cout << (a|b);

beeld - two. output=5 4-100 (4/2) 122 -1001

3) int main () { unt a=5 /0/01 unt b = 1000 couter (a/b);

5-30101 AM MAN 6-1000 autput=13 1101=13

unt main () { unt a = - 5 unt b = -4

\* How to find between AND (2) and OR(1) operator int man () {

int a= -4 109000 unt b = -5

cout ex (a 2b); 2's comp output: a=4//-de0/11/1-100

unt main () + 2/s und a= 4/1/11 1- 100 unt b=-5/1 1.11-- -1011 0100 1011 cutput = -1

1011 000=-8

| 6   | a16   |
|-----|-------|
| 010 | 0110  |
|     | 60101 |

In XDR operators if there are two came but their value in O believe value mill be 1 different

bool a = tour; bool b = false; cout << o (a^b); output = 1 ise teme in either one of the value in false

D bool a = tome; bool b = tome; cout << (a/b); output = 0 i e False. either both the value and Truce same for both false.

(3) unt main() < unt 1810 = 14 = 1110 unt 6 = 10 = 1010 0100 = 4

output=9.

9 NOT

| a       | nota= Na  |
|---------|-----------|
| 0       | 1         |
|         | 0         |
| neimige | (1) 40 pm |

In NOT operator 0 becomes 1 and 1 becomes o

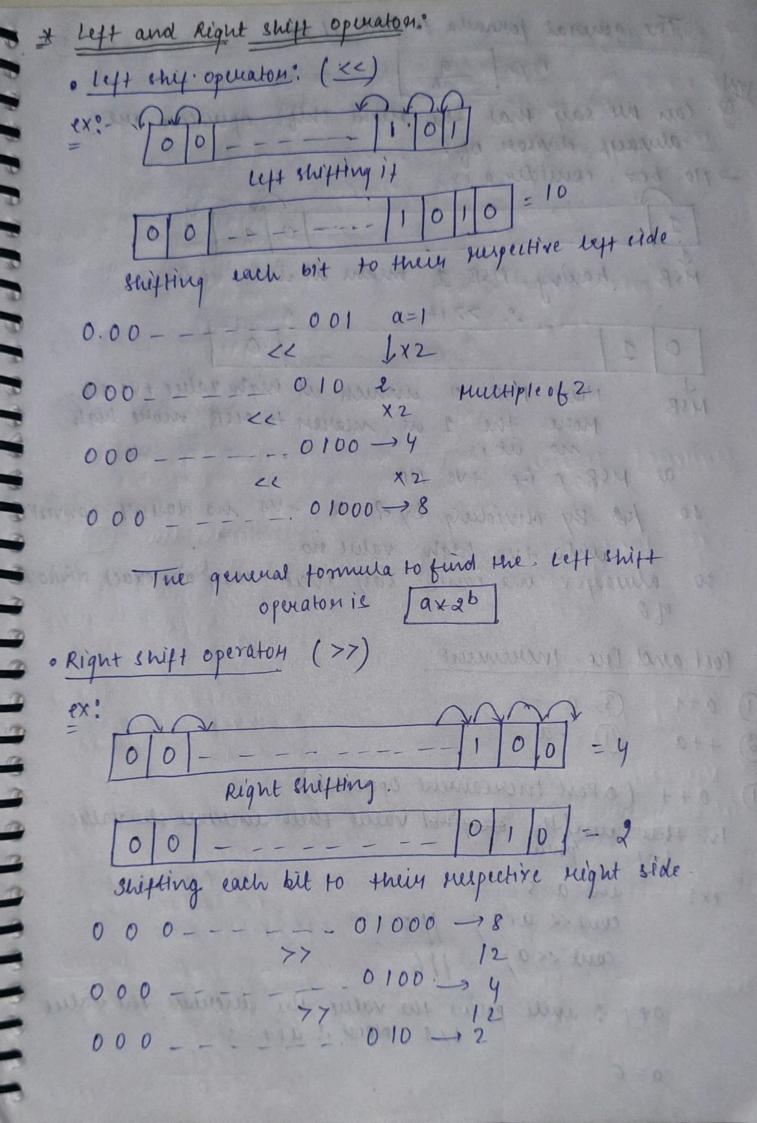
HOLD STUDIES STOLDS

ex: unt main () {

unt a = E

cout < k (~a);

suttumo;



| The general formula to find it is   |
|---|
| a (set adjusted by a  |
| D'an me say mat the right shift operators are always obvisors of 2.  No. bcz. consider a ex.                          |
| always oldrison of 2.   |
| No. bcz. comfour a ex.  |
| 127   |
| MSB having MSB-I means it wa -ve mo.  |
| .: 771H 0 100   |
| 011   |
| MSB Now MSB=0. wwhich in high value +Ve mo.  MSB Nowe the 1 in movem to MSB move high  no ut is  at MSB=0 ise +Ve No. |
| no utis   |
| at MSB=0 1°e +ve No-  |
| so pa By dividing by 2 a -ve no doun't convert  |
| so always me court say ment they are exact divisors   |
|   |
| * Post and Prie Incriment: (SS) Holorgo 17012 MINO  |
| 1) att 3 a  |
| @ ++a @a  |
| (D) a++ (a Post Incuament operators)  |
| In the welf the oxiginal value then incume the value  |
| 041   |
| ex: sint a=5 115  |
| contexa; 116  |
|   |
| att: will print the value the increase the value  |
| a = 6   |
|   |

2 ++ a ( Pre Inculament operators) In this first increase the value by 1 and then us it. ex: inta=5; has another and goth no mo couted ++a; 116 t+a: min inman en value of a by 1 i. e a=6 then print un value i.e +fa=6 C frammed a indicate " subject " exception (3) a -- ( Same as a++) first use the value then decrease the value by 1. 4) -- a ( Same as ++9).

First decrease the value by 1 then use it; (4) -- a ( Same as ++9) 1 \* Example: Prose of the policy of the solo (1) lint main () { unt a = 6 first use the value their cont << (a+7)+1;

cont << (a+7)+1;

cont << (a+7)+1;

cont << (a+7)+1; (a+7)+1unt a = 6 . will decream by 2 then unt e = (-a) + 1; e = 5 + 1 = 6coutte eta, sold a=5

3) unt main (1/

The many of desired mariners on soils to proper out

presente ne mature con pe occurrentes and

cent << (++a) \* (++a); Explain

& Break and Centinue Keyword? Break: break teatement is used to come out of the loop

ex: output, n=5 fon ( inti=0; i<n; i++) < 1=0 i25 Yes Singh will be print ouch suaching to break couter Batsingh ; could; keyword execution stops ecomes out of 100p contee" subrat exend. their puid and seed as a culput many Subrat Subrat Continue: continue keyword used to execute the code next interaction of the loop mythout doing the actual tark on going to next line. entput (1) beontinue couter subvat"; subvat fonce to jump to next iteration i.e 1=1 same 1=2,1=3,1=4 Continue in used when you want to skip any iteration. so nothing display on s Global variable: variable that can be used anywhere unide a program. \* variable scoping: Local variable: variable survese scope belongs to the particular func. i.e can be ruled by that particular function \* The using of global variable in said to be bad practice became ute value can be overneritten by any function.

```
output
       unt global = 6;
       unt mais () <
          int a; 11 de claration
          int b= 6; // initialization
           b= 7; 11 updation
        X unt 6=8; // Not possible
           if (time) <
                  unt b = 5
                               scope of this bis unide it statement
                  courters;
                                 can't be used outside.
           court ex b;
          cont ex global;
* twitch can;
                allowative of if-else statement to in ouare
                 the reaclositity.
    ise switch(exprussion) {
           call 2: value break.
                                           we can't me continu
           casez: ____ bruak;
                                           statement with.
                                           surten cares because
            case 3: ____ break;
                                          execute une come out
            default:
                                           of the switch case.
                                           continue statement as
                                           basically used toy
     sueitch (value) {
                                           loops winthout statem
       can 2: contre" Subnat"; bruak;
                                           - left execution to ull
                                           mext itteration of loop
       case2: contex "superiya". bulak:
                                           At there is not passible
        caus: cont « " eingh"; break.
                                           -ty of two using contin
```

dyant: cont « " Not available!

in switch cases.