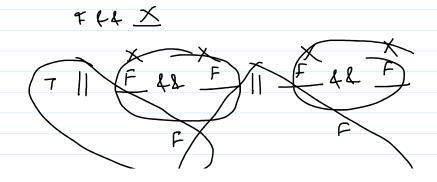
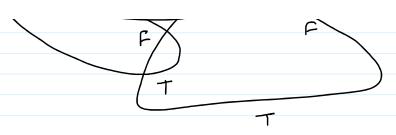
1 · 0 -	A	
Logical op	erators:	
4 4	11 1 - ynar	<i></i> ∂.
•		Non zero - True
and	oy not	zero - follpe
Cond	1	
Q Q	! a	if(=36)
T	F	Hello V
	T	elpe
•	,	Hello V else Bye
ל למודמ	("°/.d", [5), -	0
P , (•	
	FX	
printf	= ("), d " , b); -) 1
	'	

Q		Ь	9446	a 11 b
	Т	F	F	T
-	F	T	F	Т
_	T	7	Т	Т
_	۴ ۱	F	T	F





int 9=0, b=0;

if (a++ LL b++)

printf ("True");

elpe

printf ("False");

printf ("%d %d ", a, b); -> False Lo

a = 9, b = 0if (++9+4,b++)"True";
elpe

"False";

printf ("% d % d 1, 9, 6); \rightarrow False I 1

Comma operator: >

high > ()

(+ world left to Right and return

right most value.

int a; $a \le \frac{1}{2}$ int a; $a \ge \frac{1}{2}$ $a \ge \frac{1}{2}$

Conditional operator (?:) Ternary operator

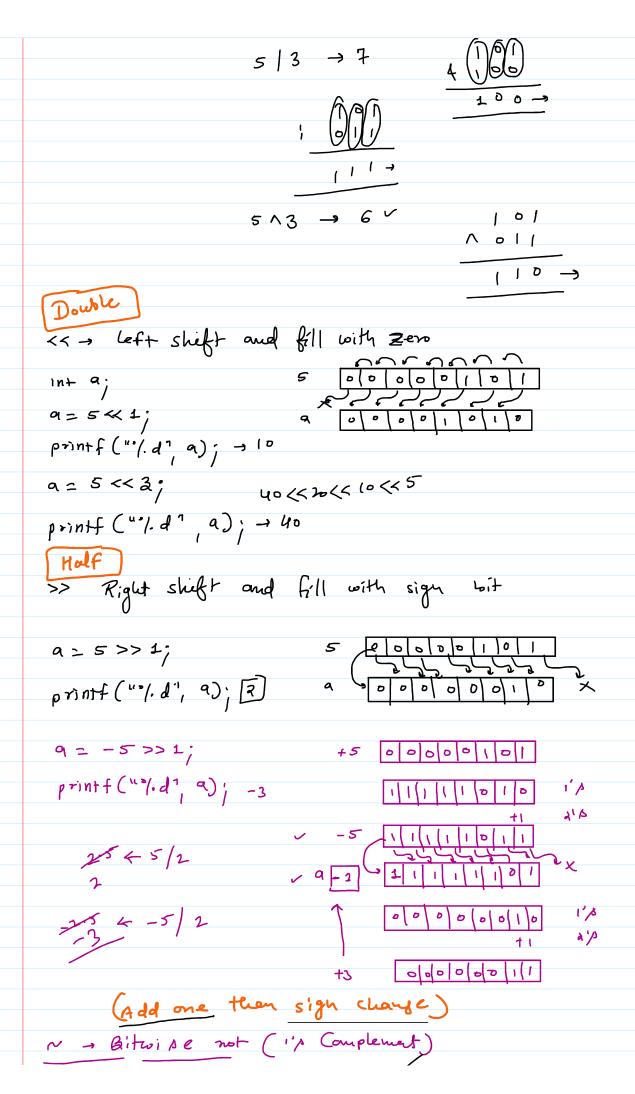
Condition? True statement: False statement;

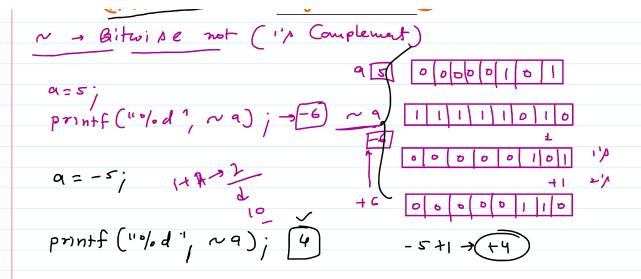
max of 2 numbers

Bitwipe operators:

$$\left(110100\right)_{2} \longrightarrow \left(52\right)_{10}$$

175





swap 2 new

temp = 9	a = a + b
a=b	6 = a-b
b = temp	a = a - b
a= 9*b	a= 916
6=916	62916
a = a/b	0129Nb
·	

Table of Precedence & Associativity

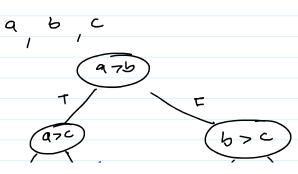
Rank	Operators	Associativity/Descriptions
1.		left to right
	()	Function call
	[]	Array element reference
	->	Structure operator
		Structure operator
2.		Right to left
	-	Unary minus
	+	Unary plus
	++	Increment
		Decrement
	!	Logical not
	~	One's complement
	*	Value of address
	&	Address of
	sizeof	Sizeof
	(type)	Typecasting
3.	*	Left to right
		Multiplication
	/	Division
	%	Modulus
4.		Left to right
	+	Addition
	_	Subtraction
5.		Left to right
	<<	Left Shift
	>>	Right Shift
6.		Left to right
	<	Less than
	<=	Less than equal
	>	Greater than
	>=	Greater than equal

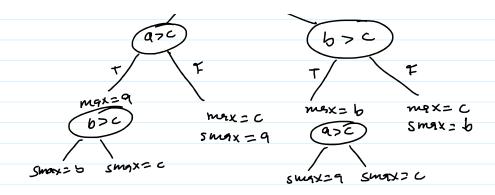
Left to right

```
Equality (conditions)
                 Not Equal
                  Left to right
                 Bitwise AND
                  Left to right
                 Bitwise XOR
                  Left to right
                 Bitwise OR
                 Left to right
   11.
                 Logical AND
                  Left to right
                 Logical OR
                  Right to left
                 Conditional Operator
                 Right to left
                 Assignment operators
       /= %=
       &= ^=
      = <<= >>=
                Left to right
                Comma operator
Condition: -
e/1. if elpe
  12. Nested if else
  , z. only if u elpe if elpe
     5. switch
     6. conditional operator (P:)
O if elpe: >
                      True statement;
elpe
Falpe statement;
```

max of 3 numbers; - 9,5,C

w. A.P to find max and second max of 3 nums





```
#include<stdio.h>
int main()
    int a,b,c,max,smax;
    printf("Enter 3 nums:");
scanf("%d%d%d",&a,&b,&c);
    if(a>b)
    {
         if(a>c)
             max=a;
             if(b>c)
                  smax=b;
             else
                  smax=c;
         }
         else
             max=c;
             smax=a;
         }
    }
    else
    {
         if(b>c)
         {
             max=b;
             if(a>c)
                  smax=a;
             else
                  smax=c;
         }
         else
         {
             max=c;
             smax=b;
    printf("max = %d\nSecond max = %d",max,smax);
    return 0;
}
```

only if 1if (condition)
True statement

a,5,0,d



```
9,5,c,d
 maxof a nus
      , coud a stut
3 max of 3
     3 cond ustrut
1 max of 4
    7 coud 8 stmt
(9 max of 5
  15 coul & (6 Strut
max of 4 numps using only if
      9,5,0,0
            mgx = a;
             if (b>max)
                   mg x = 6 .
                                      max of 2 nums
            if (c>max)
                                      NOXOF & HUY
             1f ( d> max)
                                     mer of 4 nums
                    max = d;
    #include<stdio.h>
    int main()
       int a,b,c,d,max;
       printf("Enter 4 nums:");
       scanf("%d%d%d%d",&a,&b,&c,&d);
       max=a;
       if(b>max)
           max=b; //max of 2 nums
       if(c>max)
                    //max of 3 nums
           max=c;
       if(d>max)
                     //max of 4 nums
          max=d;
       printf("%d",max);
       return 0;
```

cand for cand for cand else if elpe; ,

print arade of a student conditions one -

if (p > = 90) printf (" Grade A");

elpe if (p == 70)

printf (" Grade B");

else if (p > = 50)

printf ("Grade c");

else print ("Grade D")

mgx, smax of 3 namp

else
$$\begin{bmatrix}
4 & mqx = b; \\
smqx = a, \\
\end{pmatrix}$$

$$\begin{cases}
f(c > max) \\
Smax = max \\
mex = c,
\end{cases}$$

max max smax

```
else if (c > smax)
         5 mgx = C/
#include<stdio.h>
int main()
   int a,b,c,smax,max;
   printf("Enter 3 nums:");
   scanf("%d%d%d",&a,&b,&c);
   if(a>b)
   {
       max=a;
       smax=b;
   }
   else{
      max=b;
       smax=a;
   if(c>max)
       smax=max;
       max=c;
   else if(c>smax)
   printf("Max = %d\nSecond Max = %d",max,smax);
   return 0;
}
```

w. A.P to print name of a day.

no	name	else if else
1	Mon	
2	Tues	
3	<i>م</i> وصا	
4	thers	
5	fri	
۶	sat	
7	san	_
other	invalid Inq	pht
- •	•	

```
switch cape: )

switch (number)

cape value:

statement;

break;

i

default:

slatement;
```

```
#include<stdio.h>
int main()
                                                 14t x = 1
   printf("Enter number of a day:");
                                         floor string
   scanf("%d",&day); ; wr cher
   switch(day) .
      case 2:
         npintf("Mon");
        →break;
       case 2:
         printf("Tue");
                                                        space
         break;
       case 3:
        printf("Wed");
break;
                                        case 1 ... 10:
       case 4:
          printf("Thu");
          break;
       case 5:
          printf("Fri");
          break;
       case 6:
          printf("Sat");
          break;
       case 7:
                             - default
          printf("Sun");
       default:
          printf("Invalid");
   return 0;
```

Conditional operator: 3

a>b ? printf(a); printf(b)

```
#include<stdio.h>
  int main()
      int a,b;
      printf("Enter 2 nums:");
     scanf("%d%d",&a,&b);
      a>b ? printf("%d",a) : printf("%d",b);
      return 0;
Nepted:
   max = a > b ? (a > c? a : c) : (b > c? b : c);
max = a>b? (a>c?(a>d?a:d): (c>d?c:d): (b>c?(b>d!b:d):(c>d?e:d);
                 if (y%100 = =0)
               - 9 if (y% 400 = = 0)
leap
elpe
Not leap
   if else:-
           if (year % 400 = =0 | y $ /04 = =0 4 4 % 100 !=0)
                                leap
            else
```

