## CS & IT ENGINEERING









By- Pankaj Sharma sir



1,2,3

Prariable

Prariable

Activess

Procent

Pointf

Interface

doubts ?

Range Calculate

HW

Cyclic Bropesty

Operators
$$\begin{array}{c}
20 + 10 \Rightarrow 30 \\
20 / 10 \Rightarrow 2 \\
20 - 10 \Rightarrow 10
\end{array}$$
Asithm.
Operators

2 Operand

loperand

- 1) Unasy
- 2) binary
- 3) Termory

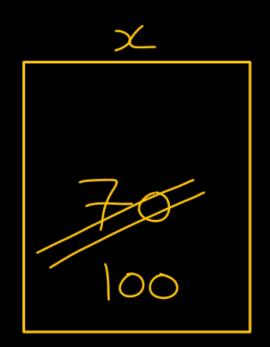
1 Assignment operator (=)

binary operator

$$x = (10 + 20 \times 3);$$

$$80/ve/8volvate$$

$$x = 10 + 20 \times 3$$
;



int 
$$x=2$$
;  
 $100=x$ ,  $X$ 

$$|0+2\times3=x|$$

Lvalue = Rvalue;  
int x, y=4, + constant/literal  

$$x = 10$$
; + expression  
 $x = 10 + 2 \times 30/5$   
 $x = 4$  variable

Constant 
$$(3) = x$$
;  $(3) = x$ ;  $(3) = x$ ;  $(3) = x$ ;  $(3) = x$ ;

Asith: Operators

$$(X, 1, +, -, 0)$$

1)  $+, - \Rightarrow \text{unaxy/binary}$ 
 $+12, -12,$ 

binary

 $(X, 1, +, -, 0)$ 

a o/o b  $\Rightarrow$  what is the remainder when a is divided byb paintf("/d",(13/5)) 55/12/2

printf ("/d", 21%8); ->5 50 48 both operands must be 20 int type int x; Ud Ke loat Marega

$$-5\% 2 \qquad C \text{ Standard} \Rightarrow$$

$$|rost of \\ Compilers \qquad 0 / 0 b \Rightarrow sign \\ a -5 / 2 \Rightarrow -ve$$

$$|5 / -2 \Rightarrow +ve$$

$$|-5 / -2 \Rightarrow -ve$$

## 1) result of operator => behaviour of operands

$$(5/2) \Rightarrow (3) \times$$

$$7/2 \Rightarrow 3$$

int, int => int

float, int => float

int, float => float

float, float => float

$$30 + 30 \Rightarrow 50$$

$$20-30 \Rightarrow -10$$

$$20 \times 30 \Rightarrow 600$$

$$x = 2 + 3 \times 4$$

$$\mathcal{X} = 2 + (3 \times 4)$$

$$x = \frac{4}{2} \frac{2}{2}$$
Maths
$$(4/2)/2$$

$$2/2$$
Associativity
$$x = 1$$

$$1 \text{ to } R$$

int x;

$$x = \frac{20.2}{2} / 3 + 6$$
;

Printf("/d", x);

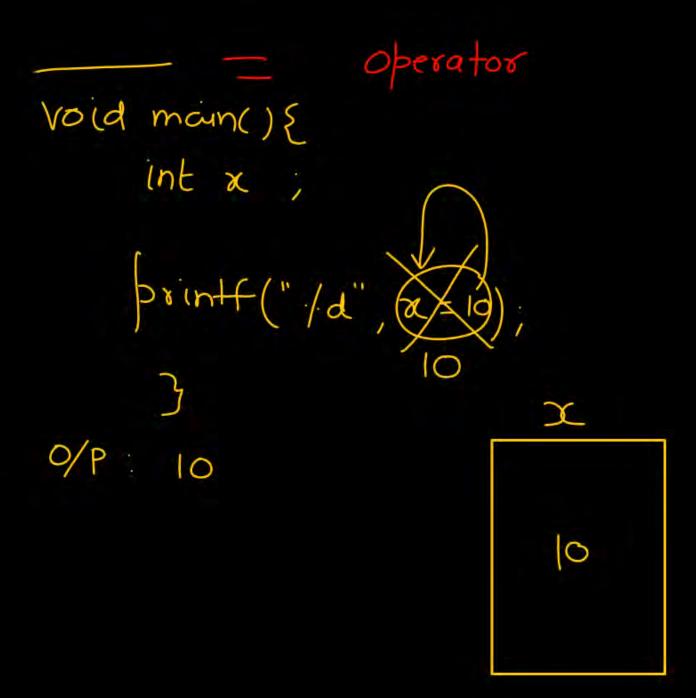
 $\frac{100t}{20.2} / 2$  int
 $\frac{20.2}{2} / 3 + 6$ ;

Excos

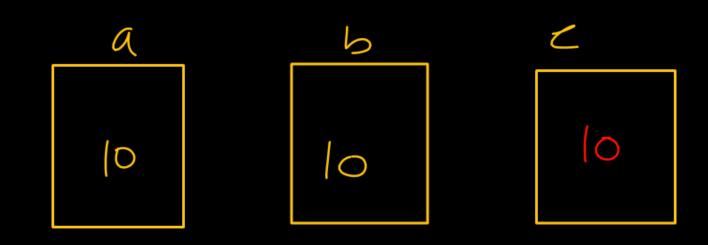
$$x = \frac{4}{2}$$

$$x = \frac{2}{3}$$

$$x = \frac{2}{3}$$



$$a = b = c = 10$$



int 
$$a,b,c$$
,
$$a = b = [4 = C],$$

$$printf("/a/a/a',a,b,c),$$

Lvalve must be a voriable

$$\frac{1}{2} \times \frac{1}{2} \times \frac{1}$$

## Relational Operators

value/Result

1

$$a <= b \Rightarrow 10 <= 10$$

A Is 10 less than 10

A Is 10 Equals to 10 V

|0|=20 Is 10 not equals 20  $\frac{7}{4}$  No  $\frac{10}{4}$  no

Result of every relational obserator is either 0 or 1.

$$x = (10+3)(1<0<-1>(2-6))$$

int i, i=3, valid



printf => No of symbols printed by it

Pankaj

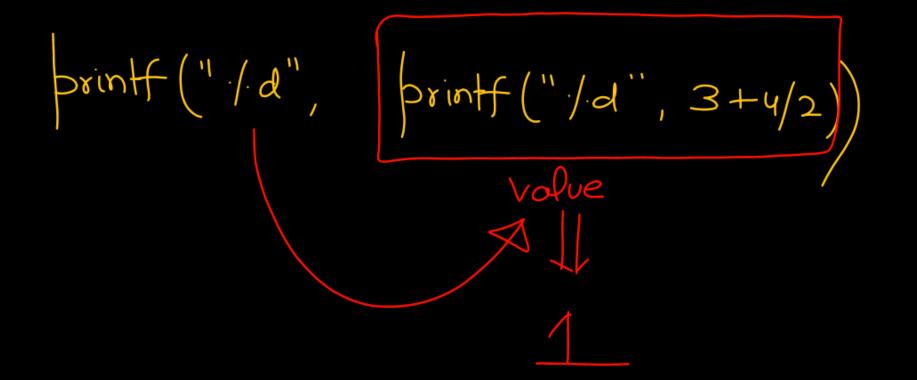
brintf ("/d", printf ("/d", 3+4/2))
Evaluate

printf("/d" 1)

printf("/d" (3+4/2)

3+2

51



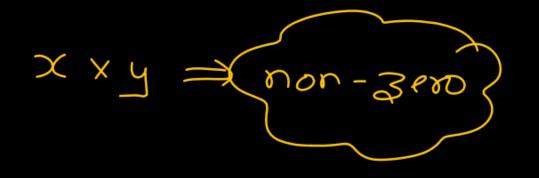
printf ("./.d", 1)

printf ("/d" 3+4/2);

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Logical Operators non-zero => True zero > Folse > 3tz (i) Logical (AND) AND y

$\propto$	4	X AND 4	Result/value
F	F		nesuri vave
			0
			0
			1



Logical AND ( II)

12 22 13.5 you-sero non-zero printf (" 1d", 2 22 3.6); 1 printf ("/d", 218238); 1 print (, /q, 51850); 0 Drint (, 19, 08551); 0 void main(){ int brint ("Hello") printf("/d",1),

Hellosiy1		

Logical OR (11) 1) choice (3-12/11) It at least one operand is a||ba 6 Result/value non-zero If both are zero

- Drintf ("/d", 21 3);
- 2 printf ("/d", 21/3.8),
- 3 Printf("/d", 21 0);
- 9 printf ("/d", 0||0.0), 0

Monday Archapter-3

Function & constant of storage Class



