```
Hourch 3101:
  -> Operalon
  *) = operard is any object which that effected by sperals.
   Est tun main 119
          NOT x = 12)
          val y=3
          and Jusult = x+7;
          2 Printo[1/$ roulfil;
     -) The operators here one 'x' and 'Y' because Horse partiables
       are effected by operation (+)
  Just salmo ni threse and trugter, adapter threat the Hill (*
        PHOTO ("x+Y=$(x+Y)"); 11 with the holp of placeholder
                                        we can achieve it
-) In kottin when we perform outhinatic operation, involving a
    Double' & Int, the nexult ? Is automobileally promoted to double
     This behaviour is due to earling type promotion scules, which
     promote the smaller data type to larger data type in order to
      maintain precision and precent lass of data.
   Gx= tup main() {
              NO1 X:13.0
```

Printo ("\$ nexult"); 11 15.0

val 4= 3

ral result: XtY;

(; G= * turent (- G* threat = threat; G+ threat = threat (-

this can be written as susult+=2 out. It has fight hand side will execute & that a assign value to the left-side variable.

- -) operated precedences
- * Code:

PHINHO (3+3*4=\$13+3*44)"); BODHAS

=) DUMPLIT: 3+3*4=(3).

Mulliplication home male

Precedence Han addition =)3+12:(5).

- -) looks at the precedence table confully-
- Mote: christ aperation is used for mult scapely checks and has sight to left precedence. It provides consider way to handle multiple values by providing default to the expression on the fet left side evaluates to multiple
- (9!)—) used to check null sapply checks & uses sught to left precedence.

x++ &++x —) increment & ausign =)[x=x+1]
ausign &Increment

d d

left to Right: Are redence operations Description Criouping Phray access Member access increment & decrement urary plus, wary minus Hulipiahon, airibion, remainder addition, subtraction Parge Membership Type checks logical AND , Elvis operator Assignment operated combonnou donay

Right to lest

Precedence aperations. Highest Ju

lowest

L), [], . -==, 1==

Derryblan Assignment operactal Elvis operation logical AND

Type obecKs Membouship Range Addition, subtraction Multiplication, division, redorizansic morn bris mary Hirmy, many logical regalion.

Increment & decrement Grouping, avoing access, member access

Comparison operation.

operations at the top have higher precedence, meaning they are evaluated that aperatous at the bottom have lower precedence and are evaluated last income wither abecatan pane some ble codence

- -> lest to Right precedence:
 - This is the most common precedence older in programming brighted and replects the natural steading older to many human language.
 - A More authimatic & logical have left to sught precedence.

Right to left precedence

- * In the precedence odor PAIENS common but is used go specific operation & scenarios where right to left evaluation makes some.
- conceptually applied from rught to left.

 This often employed with auxignment operations is a operations in the operations is a operations.

-> left to Right precedence:

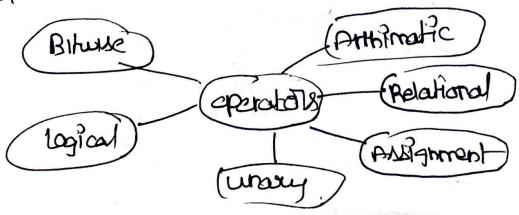
- A) This is the most common precedence older in programming brigueses and replects the natural steading older to many human language.
- A More authimatic & bajeal have last to sught precedence.

Right to lost precedence

- * In the precedence odor PALEAS common but is used to speake operation & scenario's where sught to left evaluation makes same.
- with right associativity, where the appropriates operations ?A conceptually applied born right to left.

Variable

Note: Immutable variable is not a constant because it can be priffalized with the value of a variable. It means the value of instable at means the value of instable a construct that is called supportedly it can take on all better value on each jurction all.



Bitwic operators	
aperation	Meaning (Expression.
n shl	signed shift a.shlb)
a) 3ht	signed shift a.shr(b)
a) ught	unsigned shift a ustru
4) and	Bitwise and a and lb)
s) or	Browse'er aidil)
6) XOT	Browse XOR (a.XOBL)
#) PM	Bitwise inverse arity() do 2's complement
manist motor	Marketinece in Lubration of Marketines
	00-0
=) 36 bituue and 22/1010 by abit 10-2 21/17-10	
e)	999 $100-10$ $100-9$ $100-9$ $100-9$
2/18-0 bîtwise'i	

2'20 -2H > O

00001110 1/0010 -) 11110001 +1 16