Operator precedence and Appociationty, -1) Umary Operator @ An Hornetic multiply , Division and a) Arithmetic Add and substact (1) Relational operatore. W Equality Operatine. (Logical AND Un Leglar Of (8) Conditional operator. 9 Acelynment operator (10) Comma operators

Conditional operator:

1 Aleo Called Tevoury operator that
work on 3 operands.

2 Reported by symbol ?:

Deually am be used as Conditional statement wike if-else.

eyontans- Cond-exp1 P exp2: exp3;

Here Gord-enp2 executive some Conclition it this Condition evaluate to drue them exp2 is executed otherwise exp3 wilkbe executed.

Ex. $int m_1, m_2; x;$ $m_1 = 10, m_2 = 5$ $x = m_1 > m_2 ? 1 : 0;$

If (M17m2) is true them rest otherwise x=0.

enom well do

ealton earn ather

Type Converselon: @ Imple Type Consersion is the process of Converting data of one type to another type there are troo types of Type Conversion possedde in a goodpan given ac below 1) Implicit Type Conversion (Audomatic Type Conversion) 1 94 is Automatically done by the eyetern Internally * colthat programmer intervention. (11) Headly in a mixed operance exp. all the lower datatype are converted to the highest data type in the expraecion. Web. Explicit Type Conversion (Type Consting) O 94 il epecifically coulitten by the programmer in hie Code Ex. of implicit Type Conversion. ind x = 10; 5.3 is double float 4 > 5.3; clouble Z; Z = (x *5 + y *2.6);

(1) Cer float a; int y; y = 10/3; x = (flast) 10/3print f("y= old ; y); // y=3 Townst (2= 1.f", x); //2 = 3.333 operator Associationty! - Associationty left to right S * / left to right) + -→ 2 +3* 4/5> 5+3 Type Concernion = 2 + 12/5 > 5 + 3= 2+2>5+3 = 478 Preprocessor Directivell-# include stdio.h> La File Inclusion # include myheader.h" userdefine

Mer con define and sase in c library.

Decicion Making / Conditional Comptructes-Decilion making cute weed to -1) Make decision during the program execution, based on certain Conditions. It helps in choseing one of the path from among several avoide There pathe ware nothing but the requence of programming etatement and inversuctions. Break the sequential flow of the execution of 4) Fallowing one the decision making Constructs provided in G-language. * if and else structure constructe. * Evoitch' and 'cale' Constructe. * goto Tit' and 'else' Cometoucte: - i's one of the decision making cometruct a in c- language c-language - simple if L. It chose from among two alternative - i'f-elæ. Pathe Cosoler panding to the result L> 14-elee Jadden of the Condition; i.e either True or Falle.

10 : wal & looking

@ Simple if if (Conditional expression) Toue Cfriet etatement , mext etatements Control flow of ey eimple-if (b) eimple else if-elee:if (Condition) Cofficet datement False False Blak first elatement last etalement. Control flow

Flow chart & eimple-if:-True Faleo Condition condition le true Next exatement after it Flow chart & if-elee 1-Falee Frue Condition Statement if Goodifion is toug estatement 12 Condition 18 fale 91 Next etatematic after if else, (1) # if main () ind a; pointf ("Enter the mark of etudent"); lant (""/d", & x); if $(\alpha > 33)$? printf (" Student is pass"); if (xc=33) 2 printf (" student is fail");

Nexted if-elee Nected it-elle et il a etrudure in which one if - else shouther (on simple it) at Contains another if elee (or simple if) structure. 1.e:- {if () {if () {if () else {if 2} O /* Program to find the largest number among three distint numbers given as imput */ # include < etdio. h> # indude < conjo.h> void main () int mana, mas; Printf ("Enter three number"); Sconf (" 1.d 1.d 7.d", &m, &m2 , fm2 , fm3); if (m1>m2) if (m17m3) ¿ primtf(or ma de largeet."); ? printfæng ie largeet");

ewith Call! exitch each case is a decision making Construct which provides multiway alternative. The Bared on the selective expression on of the alternative is selected to execute. It has following sympax. Switch (expr) Case label: // etatements if rexprimatches to be by byeak; Case label 2: 11 elatement i'f 'expr' matched toll Case labelm://eldement if exprimatches to labels

defalt: //elatement to be executed if respridoes

most match to any of the labels.

cexpresion i'l Combination of operands and operator."

working of evoitch cale!

1. Finied of all 'expr' is calculated

2. The great of 'expr' is modeled with labels one by one

(label 1, label 2 up to label m)

3. If the spewlt of cexpi is modeles with Jabel i's
thom the statements course parting to lebel i will be
executed if open A break elatement is encountered
than flow of control for goes outside the switch
block and continues to execute mext determent

```
after scottch block.
Note! - 96 the value of expr' does not matches
   to any of the debel the oft extrement costitten
  emder défait section coll be executed. Défait is
   optional in switch race cometrued.
In write a program to display a food menue to
    the culer */
    main ()
           printf ("Enter your choice");
           printf ("In Presse 1 for teg");
           printf (" In freel 2 for samola");
            point f ("In Press 3 for Cake");
            Cate & comf (" "/.d", &ch);
             Switch(ch)
                 Cale 1: printf ("OK, you will get Tea");
                   byeak;
                 Cace2: pointf("ck, you will get somaca");
                  (ares: primit ("ck, you will get cake");
               2 default: priorif (" you entered wrong choice");
             getch ();
```

```
if (9%2=0)
   porint f (" Number il odd even");
  3 point+ (" Number is odd");
 bolek:
cale 3:
    pointf (" Enter 9 number 99);
     Scanf ("1/0d", & a);
     for (b= 1; b<= q; b++)
       ponint f (" "/od", b);
      boleak;
  cale4: exit(o);
       printf(" Invalide choice");
  ·default:
 getch();
```

In Check Whether import number is ever or