```
03-05-2024
 Size Ofli. - unwy operator
           size of (byle) Unary it gives size in bytes.
 Ex:- main()
      1 points ("1.d", size of (ind));
        pointf ("7. d", sizeof (float));
int n;
        x = size of (char);
      frint ("1.a", x);
 TYPE CASTING: - Converting I less data trype to another data type
                 Type CASTING
                                       EXPLICIT
  IMPLICIT
                                 SYNFAX : SOLL AND THE
During exignment operation
                                 (type) operand ( unary)
-> comparing wring relational
                               main ()
  operators
   Ex: 3== 3.0
-> Sending organists to
                               int a=5, b=2.0,"
 function
                               bloat c',
  Ex! - odd (2);
                               c= (float) u/s;
      old (float. a)
                               hand ("1+") 5);
```

COMMA & SEMI COLON OPERATORS ; -Comma Herator indicates a part of statement is completed, Whereve semicolon indicates statement is complèted. E-TOKENS: - A smallest literal in a clanguage is a "c' Token.

C TOKENS SPECIAL SYMBOLS STRING OPERATORS CONSTANTS DENTIFIERS KEY WORDS 11 good 11 +,-,*,< [Variables of 32 23 functions] 11 12.34 hai" unt. 4.5 Host 'a' main houndy. hur scanf 计 sum, any else While for

Examples Fon Size OF():

* int main()

{ brintly ("size of char is ", d; n", size of (char)); fruint ("size of int is "1.21 m", size of (int); winds ("size of float is ". d\n", eizer (float)); wint ("size of double is 1. d\n", sized (double)) punts ("size of long double is 1.d'm", size of (long double) points ("sixe of short ind is '/d bytes I'm", sixe of (short int)) printf ("size of long int is 1. d byter m", size of (long int))

size of char is 1 byte Size of ent is 4 bytes size of short int is 2 bytes Size of long int is 4 bytes size of float is 4 byles Size of Souble is 8 bytes size of long dowle is 16 bytes

```
EXAMPLES FOR IMPLICIT TYPE CASTING =>
> int main()
    int x=10;
                             C X2107
                             7 = 108.000000
    chan y = 'a';
    x=x+y;
     float = x+1.0;
     printf ("x = 1.01m = = 7.6", x, 2);
- z int main ()
  1 ind n=10;
                            Entreer Value: 10
                            Darle Value - ...: 10.0000
  Souble y;
     y = x(;
    printf (" integer Value: "1. d (m", x);
    pointf 1" Double value after implicit type lasting: "A+Im", y);
Examples for Expendit Type (ASTING 2)
-> int main ()
                      The warm so rately the
   E double x=3.14; // num_double=x
      int y; 11 num - int = y
       y = (int) x;
     want ("Double Value: "/. f (m", x);
     prints ("Integer value after explicit type lasting:
          1. Q(m'; y)
       0/P: - Double Value: 3-140000
         Integer value --- Carting: 3
```

```
San San Fina Fina Fina
 IMPLICIT TYPE (ASTING)-
-) int main ()
                 int num-int=65;
                        char char- value;
                       char_ Value = num_int;
                        fruitt (" Integer value: "/. d (m"; num_int);
                       print I" character value after implicit type certing: ". c/m",
                                                   their_value);
            2/P: - Enteger Value: 65
                                                                                                                                                        April 10 to 
             Character Value .... : A
                                                                                                                                                      A CANADA
   -> int main ()
                                                                                                                                                int num-int;
                       fourth (" Enter num-int:");
                       sconf ("7.d", & num. int);
                                                                                                                          Participated by the same
                      that that - Value;
                        char-Value = num-int;
                        print (" Integer value entered from USUT: "Id (m", num-in);
                      fruit ("character value after implicit type carting is: 1. c \n'; char_value
                11: enter mum_int: 122
                                    Integor Value entered from unes: 122
                                     character value after simplicit type carting: 3 3
```

```
-> int main ()
                                               4 MANUE )
 ? int num_int;
                                   Offi
                                                1 47 T
                                    1-126 D S A
   frints ("enter num_int:");
                                               017000
                                    300 J. W. 11 B
    scanf ("1.0", & num_int);
                                              2011
                                   11/8 11/19
   Soulle num-double;
                                               CAPART A
                                    9 (1) 1
    point ("Enter num double &: ");
    Scanf ("1.14") & num-double);
                                              Hin's
                                    Maria k
                                               1 3 1 2
    Soule result = num - int + num - Soule;
    fruints 1" Result of addition after implicit type carting? 1/1+1m"
       ( ( thurs
                            Karanaka akusa, amakala
   O/p; - Enter mini-int: 10 1 1 1 1 1 1 1 1
   Enter num - double: 3.5
    Result of addition extercimplicit type costing : 13.5000
  EXPLICIT TYPE CASTANG :-
                            Take Mary Broken Can Vanish &
 -> int main ()
                                  DEM WETAINS
   2 double num-double;
                                     s rivials bounder
      fruit ("Enter num danne:");
      Scant (" "/ off", & mum-double);
      int num-int;
                                   Anales ( bosse)
      print ("Enter num-int: ");
                                  ACTION SOUTH
      scanf ("1. 0", 4 num-int)
    Souble result = neum_Souble / (Souble) neum_int;
    printly (" Runt for explicit type continy with withmetic operations:
    ", f \ m", trusult);
       21: Enter num-bould: 3.5
           Enter num-int; 2
```

Result ---- Operations: 1.7500

C Token- Keywords = > * Struct a int * Soull * auto s switch & long * elle * break * typedef * register t care + enum a union a retion * Char * entern a uniqued * short * const * Hoat n void * segned * continue * for x volatile a syeof * default * gots * while * statu * if * do

C Token - IDENTIFIERS =>

* main + prints * scans.

C TOKEN - SPECIAL SYMBOLS = 2

* Brackets () * Parenthures () * Bracks { }

* comma, * colon: 1 1 * Semicolon;

* Astories * * Assignment operator (=) * Pre-processor #

* Periol (.) * tille ~

C Token - OPERATORS =>

-> unway operators

-> Binary operators: * Arithmetic operators

a logical operators

4 Bitwise operator

* Relational operators

* Assignment operators

Tornary operator: The reso operator that requires 3 operands to set Upon. Ternary operator is also called as conditional operator (?).