STRUCTURES, NOIDN & FILES

* structures ;

-) structures are user defined functions.

to use struct keyword.

struct istructure names data type vara; data type vara;

-) Initially, it makes a template only after giving variable then memory will be created.

Si 66 bytes

address=null Per =0.0

Example:

struct student

char name [20]; (66 bytas

char course[20];

char address[20];

float per: main ()

(or) struct student (s, 52,53)

the can use structure globally on locally.

* typedel; typedef strudent s;

*	Initialization: Oat compile time	
	(2) Individually	
	3 At Run time.	and the second s
		The said In the said
U	At compile time; struct student Sa=[102, "PPP", "java", "en42", 97.83;	
	Student Sa = 1 loa,	
	name = ppp	52 - variable
	course = vava	66 bytes
	address = N42	and all all a
	Per = 97-8	
	7 10 8	
B	Individually;	
	Strepy (53. name, "ppp"); strepy (53. course, "cpp"); strepy (53. address, "212");	
	53. per = 19.9;	
	The same	100 F 3 M
3	At Run time; printf C"Enter student rno, name, course,	
	Scanf Cec/1.d, 1/1.s, 1/1.s, 1/1.f", 1.53. rno, B3. name, 153.000	
		les address, les per).
	printf ("student debrils"); printf ("sno=1.d"; s1.rno); printf ("s name=1.s"; s1.rame);	
112		
		4) 3
		12 Indian Lange

```
printf ("1,d-student r.no, name, course, address, per", i+1);
     scant (" /d 15 1.5 /15 1.1", Lacij. rnu, escij. rame,
             & StiJ. course, & StiJ. address, & stiJ. per):
   for ci=0; ic5; i++)
    printf (" 1.d student details ", i+1);
     printf custu mo= vd", scij. mo);
     printf ("sturame = y.s", s(i].name);
     4
* Pointers with add structures i
  typedel struct student
   d int rno;
      char name (20);
     char course (20);
     float per-
   4:
   struct student sa:
   Struct student * sp:
     Sp = & S1;
     $1. mo=101
    Sp-) rno=lol;
                               1540 Sirres of my
     gets csp-) & name;
                                   well a count able
     gets ('sp-) x course);
      Sp-1 per = 75.51
    stropy (sp-name, "veda");
```

* for multiple structurest

EXT For 5 students

for (1=0) 125; 1++).

int is

```
* functions with structures;
  @ Passing members of structures.
  2 Passing Entire structure to function.
 @ Passing Address of structures.
                                    William Lobust
1) Passing members of structuresi
  typedel student
      int r_no:
      chai name [20];
       char course[20];
      float per;
  4:
   void maines
    student S1 = {101, "veda", "c", 98.53;
    display (s1. 200, s1. per);
   display 2 (S1):
                     (at + comp) & Chieson Pty House
  4
  void display Cint no, float p):
     printf ("cro=1.d", no);
    printf ("per =1/f", p);
  Entire structure i
void display 2 (student 5)
    printf (" mo = /d", so rno:
    printf cerame = % s' s-rame);
    printf ( ecourse = 1/. s", s. course);
    printf (eeper= %, f", siper);
  3
            a devicate his
```

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and t

(call) spolation

Long Jole

WATER THE

```
Void main c)
   { student si, sz, r;
      r = Reading (S1);
      display cr);
    student reading (student s)
    { scant (" v.d. v.s. . v.s. . v. f", ls: onosls name, ls cause, lsp
     return s:
3 Passing address of structure i
   void main ()
     student $1, 52, 53;
    display 3: (153);
    uoid display3(student *sp)
      printf (cer_no=/id"; * (sp-) r-no);
                             display (intro, fleet p)
   3
* Nested structures !-
   struct student
                                                struct Address
                                                char city(20);
char street(20)
j. int pila;
    g int eno;
     struct DOJ
                       (or)
                               Struct student
       int do my
                               int mo:
                               DOT doi;
                               3 Address ad;
                                81. TNO=101
                                31. doi. d=5:
                               51. doj. m=1;
                               gets csi ad street);
```