Structure in C :

Array : collection of similar type of data.

Structure : group of different -different data types.

Ex.

**Person**

id-int

name- string

address- string

salary-int

syntax :

struct Structure\_tag

{

<data-type> member 1;

<data-type> member 2;

<data-type> member 3;

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} structure variables;

struct Structure\_tag var1, var2…. ;

int marks[3];

marks[1]=100; // we use subscript to access the element of the array. ( [1] here) .

the same way we use ( .) dot operator to access the member of the structure.

structure variable.structure\_member ;// used (.) operator to access the members of the structure.

**Define and initialization of structure.**

struct Student

{

int roll;

char name[10];

} stu = {101, “Bobby”}; // initialization of structure.

printf(“student roll no %d “, stu.roll);

You can have pointer, array or other variables as a member in structure.

stu.roll = 102; // for assigning value to the individual member.

stu = {101, “Bobby”}; // initialization of structure. To access all members to gether use assignment operator. Make sure that Order must be maintained.

int main()

{

stu = {101, “Bobby”}; // initialization of structure. To access all members to gether use assignment operator. Make sure that Order must be maintained.

stu.roll = 102; // for assigning value to the individual member.

return 0;

}

Note that : in C we can’t have methods and constuctors in structure. Only members are allowed. By default the members are public.

**Acccessing Members of Structures**