DataStructures :

Structures

COLLECTION OF NON PRIMITIVE USER DEFINED DATATYPES

- Collection of data members under one name is structure
- Data members can be of similar type or non similar type
- When structures is called in the main( ) program then it will consume space accordingly to the data members types it contains in the memory

An example of structure is a program of a rectangle

```
Struct Rectangle
{
        int length;
        int breath;
};
Int main( )
{
struct Rectangle r ;                    - Declaration
struct Rectangle r = { 10, 5 } ;        - Declaration + Initialisation
r.length = 15 ;                         - . Is is used to access a member
r.breath = 10 ;
Printf( " Area of rectangle is %d" , r.length * r.breath ) ;  - Accessing the members
}
```

Use of structures :

Structures is used to combine data under one name , thus some example usage of structures is

- In Complex numbers
- In student details
- In Employee Details
- Bank Details etc
- Defining Shapes etc…