Data Structure

Prepared By: Prof. Kinjal Bhalodiya

What is Structure?

Structure is user-defined data type which can store information with different data types together.

Structure Declaration

```
struct struct-name
{
          Data-type var_name;
          Data-type var_name;
          Data-type var_name;
          .......
};
```

Initialization of Structures

Initialization of Structures (Cont ...)

Accessing the members of the structure

```
struct var.member name
i.e. Structure name is "data"
   Name & Number are variables name
   data.Name=Student
   data.Number=1234
   scanf("%s",data.Name);
   scanf("%d",&data.Number);
   printf("%s",data.Name);
   printf("%d",data.Number);
```

Nested Structures

```
struct struct-name1
      Data-type var_name;
      Data-type var_name;
      Data-type var_name;
      . . . . . . . . .
struct struct-name2
      Data-type var_name;
      Data-type var_name;
      Data-type var_name;
      struct struct-name1 struct_var1;
struct struct_name2 struct_var2;
```