

Principles of Programming

Unit 4

Structure

A structure is a user defined data type in C language.

Example:

```
struct address
{
    char name[50];
    char street[100];
    char city[50];
    char state[20];
    int pin;
};
```

Here struct is keyword to create a structure.

Union

A **union** is a special data type available in C.

Union used to store different data types in the same memory location.

The Syntax of the union statement is as follows –

```
union union_name{
    type var_name;
    type var_name;
    ...
    type var_name;
} [one or more union variables];
```

Example:

```
union IU {
    int i;
    float f;
    char str[20];
} a;
```