Presentation Of

C Language

Prepared

By
M.SAQIB NOOR

Structure:

- Arrays allow to define type of variables that can hold several data items of the same kind. Similarly **structure** is another user defined data type available in C that allows to combine data items of different kinds.
- Structures are used to represent a record. Suppose you want to keep track of your books in a library. You might want to track the following attributes about each book –
- Title
- Author
- Subject
- Book ID

18th Application:

Structure:

```
#include <stdio.h>
#include <string.h>
struct Books {
 char title[50];
 char author[50];
 char subject[100];
 int book_id;
};
int main( ) {
  struct Books Book2;
                        /* Declare Book2 of type Book */
  /* book 1 specification */
  strcpy( Book1.title, "C Programming");
  strcpy( Book1.author, "Nuha Ali");
  strcpy( Book1.subject, "C Programming Tutorial");
  Book1.book_id = 6495407;
  /* book 2 specification */
  strcpy( Book2.title, "Telecom Billing");
  strcpy( Book2.author, "Zara Ali");
  strcpy( Book2.subject, "Telecom Billing Tutorial");
  Book2.book id = 6495700;
  /* print Book1 info */
  printf( "Book 1 title : %s\n", Book1.title);
```

```
printf( "Book 1 author : %s\n", Book1.author);
printf( "Book 1 subject : %s\n", Book1.subject);
printf( "Book 1 book_id : %d\n", Book1.book_id);

/* print Book2 info */
printf( "Book 2 title : %s\n", Book2.title);
printf( "Book 2 author : %s\n", Book2.author);
printf( "Book 2 subject : %s\n", Book2.subject);
printf( "Book 2 book_id : %d\n", Book2.book_id);

return 0;
}
```