20)Describe the concept of pointer with function using an example.



21) Define and describe structure.

What is Structure?

- Structure is a collection of logically related data items of different datatypes grouped together under single name.
- ☐ Structure is a user defined datatype.
- Structure helps to build a complex datatype which is more meaningful than an array.
- But, an array holds similar datatype record, when structure holds different datatypes records.
- ☐ Two fundamental aspects of Structure:
 - Declaration of Structure Variable
 - Accessing of Structure Member

Syntax to Define Structure

- ☐ To define a structure, we need to use **struct** keyword.
- ☐ This keyword is reserved word in C language. We can only use it for structure and its object declaration.

- Members can be normal variables, pointers, arrays or other structures.
- Member names within the particular structure must be distinct from one another.

Example to Define Structure

```
Example

1 struct student
2 {
3      char name[30]; // Student Name
4      int roll_no; // Student Roll No
5      float CPI; // Student CPI
6      int backlog; // Student Backlog
7 };
```

- ☐ You must terminate structure definition with semicolon;.
- You cannot assign value to members inside the structure definition, it will cause compilation error.

```
struct student

char name[30] = "ABC"; // Student Name

;
};
```

6