
Structure, Union and Pointer

1. Define structure with example.
2. How to apply structure variable with structure definition and structure tag?
3. Explain assign a structure variable to another structure variable.
4. How to identify the size of structure?
5. Differentiate between structure and union.
6. When do we use the following?
 - a. Structure
 - b. Union
7. Explain concept of the pointers.
8. Explain chain of pointers.
9. Explain Rules of pointer operation.
10. How to initialize and accessing member of a structure with programmatically demonstration?
11. How to build array of structure? Demonstrate with proper example.
12. Explain the concept of Structure with in Structure (Nested Structure) with proper implementation.
13. Write a program to understand how a structure variable is sent to a function.
14. Explain declaration and initialization of pointer using proper implementation.
15. Illustrate the use of the indirection operator to access the value pointed by a pointer.
16. Given the following declarations:

```
int x =10, y=10;  
int *p1=&x, *p2=&y;
```

What is the value of each of the following expression?

 - a. (*p1)++
 - b. -- (*p2)
 - c. *p1 + (*p2) --
 - d. ++(8p2) - *p1
17. How can pass individual structure members as arguments to function like any other ordinary variable? Demonstrate with proper implementation.
18. Write a program to accept name, age and address of five persons and display it.
19. Write a program to accept five records of employee. The structure is-

```
struct Employee{  
    char name[25];  
    int age;  
    int basic;  
}
```

Calculate the total salary of the employee as:
Total Salary = Basic + DA + HRA

DA = 10% of Basic

HRA = 5% of Basic

Display the name, age and total salary of the employees.

20. Implement the logic to exchange the values stored in two locations in the memory using function.