

1. Write any three applications of structures and Unions
2. Describe the two ways of accessing a structure member through a pointer. Explain the same with an example.
3. Define and declare a structure to store date, which including day, month and year. Explain it with an example.
4. Give the uses of typedef statement.
5. Compare enumeration data type with unions.
6. What is structure? Explain array of structures with example.
7. Write a C program using a pointer to structure illustrating the initialization of the members in the structure.
8. How do you declare, initialize and access a structure containing arrays? Explain the same with examples.
9. Differentiate between structure and union and write a program to find sum of marks in three subjects for a student using structures.
10. Define and declare a structure to store date, which including day, month and year and explain.
11. Describe the process of deflation and, initializing a union with an example.
12. Explain three different approaches that can be used to pass structures as function arguments
13. How a function can access members of a structure? Explain with suitable example
14. What is a self-referential structure? Give an example.
15. What is the output of the following 'C' program? 

```
void main() { struct { a : 5; b : 1; c : 15; }a; printf("%d", sizeof(a) ); }
```
16. What is the output of the following fragment of 'C' code? 

```
union { int i; char ch[2]; }k; k.i = 512; k.ch[0] = 50; printf("%d", k. ch[1]);
```
17. Define nested structures.with example program
18. Is it possible to declare two structures with the same name? Justify your answer.
19. How do you define a structure, structure variables, access their elements and perform operations on them? Explain with examples.
20. What is the basic difference between an array and a structure?
21. How do you declare, initialize and access a structure containing arrays? Explain with examples
22. What is the similarity between structure, union and enumeration?
23. What are the two types of operators used for accessing members of a structure? Explain with examples
24. How are structures nested in structures? Write a nested structure to represent a rectangle.
25. Give an example to use structure's member through pointer using malloc() function.
26. Describe the two ways of accessing a structure member through a pointer. Give an example
27. What is an enumerated data type? Explain with example.
28. Declare a structure to store the following information of an employee: name, department and salary
29. What is the main reason for using structure? What special keyword is used in defining a structure? Give syntax for structure
30. Demonstrate how one structure can be copied to another of the same type.
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