

2020

1. Why do you use DMA instead of array?

Ans : We use DMA instead of array to save ta unwanted memory space. For example when we don't know the required memory requirement at the compilation time and when we have to dynamically allocate and deallocate the memory we use DMA.

2021

1. What is programming techniques?

Ans: Programming techniques is a structured methods and practices developers use to write a clean, efficient and reliable code.

2. Define Data types. Explain different data type use in C programming.

Ans : Data types specify the type of data a variable can hold and also determine the size of a variable. Different types of data types are ;

1. Integer (int):

- Used to store whole numbers.
- Variants: short int, long int, unsigned int.

2. Floating-point (float and double):

- Used for decimal numbers.
- float has single precision, double has double precision.

3. Character (char):

- Used to store a single character.
- Enclosed in single quotes 'A'

4. Boolean (Bool):

- Represents true/false values

5. Derived Types:

- Arrays store a collection of elements
- Pointers store addresses

3. Any Four System design tool with suitable example.

Ans : System design tools play an important role in system development. It is similar to designing the blueprint of a house before actual constructing beings.

1. Data Flow Diagram (DFD)

DFD is a tool that describes the flow of data through a system. It shows what happens to the data as it goes through a process. DFD shows the external entities, internal entities, their relationship and their flow direction.

2. Context Diagram

in context diagram, the entire system is presented as single process without any sub process. After context diagram is broken down into many sub systems then the output is DFD.

3.Decision Table

It defines a logical procedure by means of a set of conditions and related actions. Decision table provides clear decision, leading to a good program design. A decision table generally consists two parts- conditions, actions

4.Decision Tree

Decision tree is a decision support tool that uses a tree like graph of decisions. It is more user friendly because it provides a graphical hierarchical diagrammatic view of conditions and actions.

4. What is the characteristics of a good programmer?

Ans : The characteristics of a good programmer are as follows:

1. Strong technical knowledge

a good programmer must have proficiency on programming languages, data structures and algorithms. He/she must be familiar with development tools.

2.Problem-Solving Ability

a good programmer should have analytical thinking with creative solutions.

3.Having patience and Sound mind

a good programmer must have patience and sound mind to solve the problems that may arise during development process.

4.creativity

no matter what you are making an app, website or anything a good programmer must be some what creative. It can be considered one of the most essential developer skill.

5.Define file opening modes.

Ans : File opening modes in C are predefined character sequences that specify how a file should be opened when using functions like `fopen()` in the C standard library.