**SIMPLI LEARN INTERVIEW QUESTIONS**

1) What is a data structure?

Ans) A data structure is a storage format which defines the way of organize the data and manipulation of data

Ex: Arrays, Tress, Graphs

2) What is an Array?

Ans) An array is storing of elements of same data type

3) What is an linked list?

Ans) A linked list is an linear data structure which stores the elements and that elements need not to be of same data type. And also in linked list all the nodes are connected to starting point of the node with end of the node

4) What is a stack?

Ans) Stack is linear data structure where perfomes LIFO and in stack access of elements is starting from top most order

5) What is a Queue?

Ans) A Queue is a linear data structure which performs FIFO

6) What is a binary tree?

Ans) Binary Tree is an data structure in which we have two children for each node and the top node is called Root Node or Parent Node.

7) What is a Recursion?

Ans) Recursion means calling a function repeatedly until it satisfies the particular condition

8) What is mean by OOPS?

Ans) OOPS is paradigm of concepts such as Encapsulation, Polymorpsism, Abstraction, Inheritance. In OOPS it focus mainly on classes and objects

9) What is an object in OOPS?

Ans) A real world entity having a particular state and behaviour. It can be defined as an Instance of a class.

10) what is a class?

Ans) A class is a blueprint from which an object can be created

11) What is an Inheritance?

Ans) An object which acquires the properties of parent object and this is used for code reuse

12) what is polymorphism?

Ans) A concept that allows a task to perform it in different ways

13) What is an abstraction?

Ans) A concept which hides the backend and shows only the fuctionality of the program is known as abstraction.

14) What is an encapsulation?

Ans) A concept of OOPS in which data and code that binds together into single unit is known as encapsulation.

15) What is binary search tree?

Ans) A BST in which it stores the data and it can be retrived very efficiently, it is known as binary search tree

16) What is a doubly linked list?

Ans) Doubly linked list means Traversing of elements can be done in both directions is known as doubly linked list

17) what is mean by graph?

Ans) A Graph is nothing but set of ordered pairs. Ordered pairs means edges or arcs and arcs means which it connects to nodes where data can be transferred and retrieved.

18) What is a linear data structure and Non linear data structure?

Ans) A linear data structure in which elements are stored in adjacent format. And non linear data structure in which two or more elements are stored in adjacent format

Ex of linear data structure are arrays, linked lists, Queues, stacks

Ex of Non linear data structure are Graphs, Trees

19) what is a dequeue?

Ans) Dequeue is nothing but double ended queue in which both we can insert or delete elements from both sides.

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