Computer Science (New Book) - 10th Class Computer Science English Medium Chapter 4 Preparation

Q1. Data Structure.

Ans 1: Data structure

Ans 2: Data structrue is a container to store collection of data items is a specific layout. High level programming language provide data strcture s in order to store and organize data. Different data structures are available in C programing . Array is the one of the most common data structure in C language.

Q2. How we can exit from the for loop.

Ans 1: Condition is checked in the loop and if it turns out to be false, then we come out of loop.

Q3. What do you mena by element of the array.

Ans 1: An Array is a collection of variables that can store data of same type. Each memory location holds a single value, which is called an element fo an array.

Q4. Define Nested loops.

Ans 1: When we use a loop inside another loop. it is called nested loop strucutture, In nested loop an inner loop is completely enclosed inside an outer loop. We use nested loops to repeat a patern multiple times.

Q5. Define Loop Structure.

Ans 1: Loop Structure is used to repeat a number of statements up to a specified number of times of until a specified condition fulfilled. A loop is a staements in a programming langauge that allows one or more statements to be repeatedly excuted as many times as required, There are three types ofn loop whihc are used in C program.

Ans 2: * for loop
* While loop
* do while loop

Q6. What is data structure? And why we need data strcuture.

Ans 1: Data structure is a container to store collection of data items in a specific layout. High level programming languages provide data structures in order to store and organize data. Different data structures are available in C programming langauge. Array is the one onf the most common data structure in C language.

Ans 2: Need: We need data strcutre to store and process large amount of data.
Example: The marks of 100 students we does not need to declare 100 variables we should use array.

Q7. What happens if we try to initialize an arrray in a single statement after declaring it.

Ans 1: The compiler generates an error if we try to initialize the whole array in one separate statements after declaring it. The compiler will give the following error message.
" Initializing whole array after declaration not allowed"

Q8. How we can declared an array?

Ans 1: In C lanaguage, an array can be declared as follows.

Ans 2: Data type array name : is the type of data that wew want to store is the array.

Ans 3: Array name: is the unique identifierr that we use to refer to the array.

Ans 4: Array size : is the maximum numebr of elements that the array can hle.

Q9. When body of the loop is executred.

Ans 1: If the conditio is ture, than body of the loop is executed. After executing the body of the loop, the counter variable is increase or decrease depending on the logic of the program.

Q10. Define Array

Ans 1: An array is a data structure that cfan hold multiple values of same data type e.g. an in to array can hold multiple integer alus, a float array can hold multiple real vales and so on. An important property of array is that it stores all the values at consecutive locations, inside the computer memory.
