

Computer Science - 10th Class Computer Science English Medium Chapter 4 Preparation

Q1. Write down the general Structure of for loop.

Ans 1: General structure of for loop.

Ans 2: for (initialization: condition : increment/ decrement)

Ans 3: {

Code to repeat:

}

Q2. What is the most important property of an array.

Ans 1: An important property of array is that it stores all the values at consecutive locations inside the computer memory.

Ans 2: It can hold multiple values of same data type.

Q3. What are uses of loop in an array.

Ans 1: Loops can be used to read and write values in arrays. As variables can be used as array indexes, so we can use loops to perform different operations, on arrays. If we want to display the whole array, then instead of writing all the elements one by one, we can loop over the array elements by using the loop counter as an array index.

Q4. 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.

Q5. How we can declare an array?

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

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

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

Ans 4: Array size : is the maximum number of elements that the array can hold.

Q6. How index are assigned to an array.

Ans 1: First element has the index 0, second element has the index 1 and so on. Thus weight { 0 } refers to the first element of the array weight, weight { 1 } refers to the second element and so on

Q7. What is data structure? And why we need data structure.

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 language. Array is the one of the most common data structure in C language.

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

Q8. What happens if we do not initialize an array at the time of declaration.

Ans 1: If we do not initialize an array at the time of declaration, then we need to initialize the array elements one by one it means that we cannot initialize all the elements of array in a single statement.

Q9. Define Array

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

Q10. Define Loop Structure.

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

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