

Smart Programming : YouTube Channel

An investment in Knowledge pays the best interest....

**Smart Programming**
We Educate - We Develop

+91 62838-30308
Call us to Learn
Latest Technologies
City : Mohali (Punjab),
& Chandigarh
(India)

 **WEBSITE :** <http://www.smartprogramming.in>

 **BUY COURSES ON :** <https://courses.smartprogramming.in>

 **YOUTUBE CHANNEL :** **Smart Programming** (<https://www.youtube.com/c/SmartProgramming>)

 **ANDROID APP :** **Smart Programming**
(<https://play.google.com/store/apps/details?id=com.smartprogramming>)

 <https://www.facebook.com/smartprogramming.india>

 https://www.instagram.com/smart_programming



We Educate
We Develop

Data Structure & Arrays in Java

=> Data Structure :-

-> A data structure is a particular way by which we organize, manage and store the data in the computer so that it can be used effectively

-> Data structure is not a programming language like c, c++, java or python. It is a set of algorithms which we can implement in any programming languages

-> Operations that we can perform on data :-

1. Searching

2. Sorting

3. Insertion

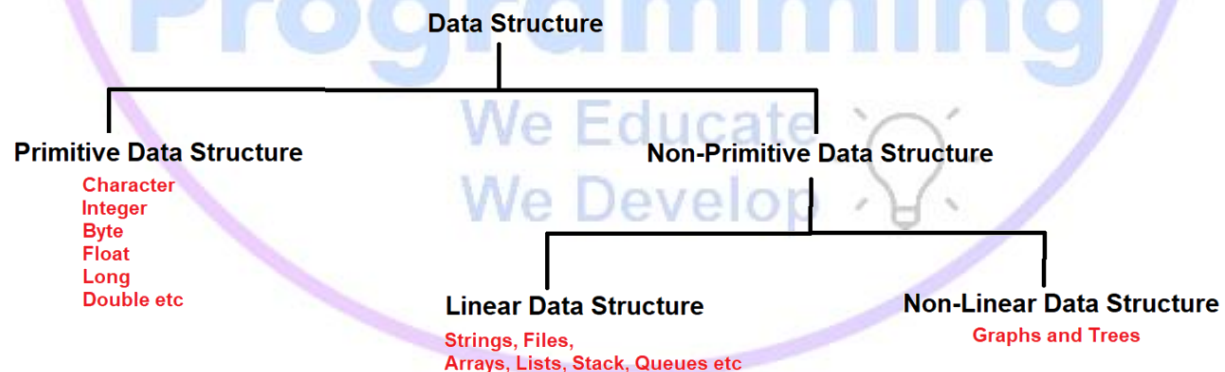
4. Deletion

5. Updation

-> Advantages :-

1. We can process the data easily
2. It stores the data very efficiently on the disk
3. Data structure is used to develop algorithms
4. It stores the data in a secured way

-> Types of Data Structure :-



1. Primitive Data Structure (eg Integer, Float, Long, Double etc)

2. Non-Primitive Data Structure

-> Linear DS (eg String, Files, Arrays, Lists, Stacks, Queues etc)

= In Linear DS the data is arranged in a sequential form i.e. one element is connected to only one other element in linear form

-> Non-Linear DS (eg Graphs & Trees)

= In non-linear DS, one element can connect with 'n' number of elements.

**Smart
Programming**

We Educate

We Develop



=> Arrays :-

1. Array is a collection of similar type of data (homogeneous data)
2. Array elements are stored in contiguous memory locations
3. Array can contain primitive or non-primitive elements
4. Array is index based data structure, first index position of an array is 0
5. Array length starts from 1

**Smart
Programming**

We Educate
We Develop



Company Links & Contacts

Company Name: Smart Programming (+91 62838-30308)

Address : Chandigarh & Mohali (Punjab), India

Websites: <https://www.smartprogramming.in/>
<https://courses.smartprogramming.in>

Android App:
<https://play.google.com/store/apps/details?id=com.smartprogramming>

YouTube Channel:
<https://www.youtube.com/c/SmartProgramming>