



* Applications of data structure:-

The various applications of data structure are:-

- It describes the Physical and Logical relationship between the data item.
- It provides the method of representing the data elements in the memory of computer efficiently.
- We can solve various numerical problem with the help of data structure.

* Real Time application of Data Structure :- In this, = = = = = = = = the real time applications of all the data structure are discussed:-

1. Application of Arrays:-

- Array can be storing data in tabular format
- A Simple Question paper is an array of numbered questions with each player in the game.



2. Application of Linked List:- (A) Linked List is a sequence data structure, which connects elements, called nodes through links)

- Images are linked with each other. So, an image viewer software uses a linked list to view the previous and the next images using the previous and next buttons.
- Web Pages can be accessed using the Previous and next URL Links which are linking using linked list.

3. Application of Stack:- It uses LIFO order.

- Call logs, E-mails, YouTube downloads, Notifications (latest appears first).
- History of visited websites.

4. Applications of Queue:-

- OS, uses Queue for Job scheduling.
- Sending an Email, It will be queued.



5. Application of Graph:- Graphs is a DS, which data is stored in a collection of interconnected vertices and edges).

- facebook, instagram and all social media networking sites every user is node.
- Data organization.

6. Application of Tree:- Trees are hierarchical structures having a single root node).

- Posting questions on websites like Quora, the comments are child of Questions.