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|           | Abstraction: - The data structure apecified         |  |  |  |  |
|-----------|---|--|--|--|--|
|           | by the APT also provides level of                   |  |  |  |  |
|           | abstraction. The client cannot see interval         |  |  |  |  |
| -         | working of data structure, so it does               |  |  |  |  |
| _         | not have to worry about implementation              |  |  |  |  |
| _         | may no ter manifolding of the interior              |  |  |  |  |
|           | pata structure classification:                      |  |  |  |  |
|           | Marine Description                                  |  |  |  |  |
| _         | patastructure - Ocoders world                       |  |  |  |  |
| 111       | were god howing it arrest to we are a re-           |  |  |  |  |
| 50.51     | ed at Jagaram, bolder de applik a                   |  |  |  |  |
| 0         | primitive Non-primitive                             |  |  |  |  |
| 1 -       | data structure pata structure                       |  |  |  |  |
| THE COURT | or half the sair effection to a raising             |  |  |  |  |
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| *         | Non-cinear  |  |  |  |  |
| 91        | of the property as the destriction is a record with |  |  |  |  |
|           | partners pice in archaer Liter                      |  |  |  |  |
| 100       | static Dynamic Tree Graph                           |  |  |  |  |
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|           | Q , samilar   |  |  |  |  |
| _         |   |  |  |  |  |

## operations on data structure:

Traversing: - Every data structure.

contains a set of data element Traversing each
element of data structure in order to perform same specific operation like searching or sorting.

Example: If we need to calculate

average of marks obtained by a student in 6 different subject, we need to traverse complife array of marks and calculate total sum, then we will devide that sum by no. of subjects i.e 6 to find average.

- Insertion: Insertion can be defined as
  the process of adding the elements to the
  data structure of any sociation.

  If the size of data structure is n then
  we can only insert n-1 data element
  to it.
- peletion: The process of removing an element from the data structure is called deletion. we can delete an element from data structure at any random location.

empty data structure then underflow occurs.

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| / | u | searching: - The process of Linding the sociation of an element within data structure is called searching. There are two algorithm to perform searching, sinear search and Binary search. |
|---|---|---|
| _ | - | eocation of an element within data  |
| / |   | structure is called searching. There  |
| _ |   | are two algorithm to pertown searching,   |
|   |   | linear search and Binary search.  |
|   | 2 | - Indiana cara kan an in har an in  |
|   | 5 | sorting: - The process of arronging the   |
|   |   | data Ostructure in a specific order is called as sorting. There are many  |
|   |   | called as sorting. There are many   |
|   |   | algorithms that I can be used to perform  |
|   |   | 30 offing for example insertion sort,   |
|   |   | selection sort, bubble sort etc.  |
|   |   |   |
|   | 6 | of street m and n respectively of similar   |
|   | 1 | of ship in and is respectively of similar   |
|   |   | type of element, clubbed or joined to produce third list, list c of size (m+N),   |
|   |   | produce third list, list c of size (M+N),   |
|   |   | then process is called merging.   |
|   |   | 0 0   |
|   |   | - @coders.world   |
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| _ |   | Handwritten Votes   |
| _ |   |   |
| _ |   | Uploaded on lelegram  |
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