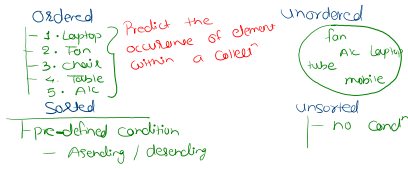


Data Structure



- 1) unordered & unsorted
- 2) Ordered & unsorted
- 3) ordered & sorted

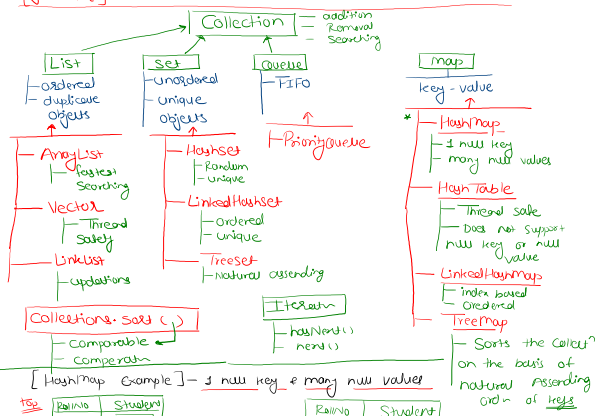
Arrays - ?

- 1) It's begin collectⁿ - Size is fixed
- 2) It can hold similar type of data (Homogeneous)
- 3) Lot of plumbing Code.

Collection Framework

- 1) Dynamically growable
- 2) Heterogeneous data
- 3) Automated ways for basic operations

[java.util]



HashMap Example - 1 null key & many null values

Rollno	Student
1	ABC
2	XYZ
3	POE
4	...

Rollno	Student
1	
2	
3	
4	
5	null
6	null
7	null
8	null

keys → values

Vector V = new Vector(2,3);

Size = 0
Capacity = 2

increment capacity

Size = 3
Capacity = 5

V.add(100);
V.add(200);
V.add(300);