## B- Tree

-> Balanced m- way tree.

Thenesalization of BST in which a node can have more than one key & more than two children.

-> maintains sosted data.

- all leaf node must be at same level.

→ B tree of order m has bollowing properties.

· Every node has maximum m children

Min Children: leaf → 0
900t → 2
internal nodes → [m]

- · Every node has max (m-1) keys
- Min key: noot node  $\rightarrow 1$  all other nodes  $\rightarrow [\frac{m}{2}]-1$

 $\Rightarrow$  Create a B-tree of order 3 by inserting values from 1 to 10. m=3

max  $key = (m-1) \Rightarrow (3+) = 2$ 

