JAVASCRIPT



How to Group Array of Elements



@SHAKTHI N R

```
// group in js
const foodItems = [
 { id: 1, food: ">, type: "Veg" },
 { id: 2, food: "%", type: "Non-Veg" },
 { id: 3, food: "/", type: "Veg" },
 { id: 4, food: "", type: "Non-Veg" },
 { id: 5, food: "", type: "Veg" },
const groupedByType = foodItems.group(elm => elm.type)
console.log("Results ", groupedByType, groupedByType.Veg)
/* Grouped by type
{
 Veg: [
  { id: 1, food: ">", type: "Veg" },
   { id: 3, food: "/", type: "Veg" },
   { id: 5, food: "●", type: "Veg" },
  ],
 Non-Veg: [
    { id: 2, food: "", type: "Non-Veg" },
    { id: 4, food: "", type: "Non-Veg" }
}
groupedByType.Veg -> To access the Veg object
*/
```

```
// Conditional grouping in js
const foodItems = [
 { id: 1, food: "", type: "Veg" },
 { id: 2, food: "%", type: "Non-Veg" },
 { id: 3, food: "/", type: "Veg" },
 { id: 4, food: "", type: "Non-Veg" },
 { id: 5, food: "", type: "Veg" },
// If food is veg then take it for dinner else lunch
const groupedBy = foodItems.group(elm => elm.type === "Veg" ? "Dinner" : "Lunch")
console.log("Results ", groupedBy)
/* Conditional grouping
 Dinner: [
   { id: 1, food: ">", type: "Veg" },
   { id: 3, food: "/", type: "Veg" },
   { id: 5, food: "", type: "Veg" },
  Lunch: [
    { id: 2, food: "", type: "Non-Veg" },
    { id: 4, food: ">", type: "Non-Veg" }
*/
```

```
// groupToMap in js
const foodItems = [
  { id: 1, food: "", type: "Veg" },
  { id: 2, food: "%", type: "Non-Veg" },
  { id: 3, food: "/", type: "Veg" },
  { id: 4, food: "", type: "Non-Veg" },
 { id: 5, food: "", type: "Veg" },
]
const groupedByType = foodItems.groupToMap(elm => elm.type)
console.log("Results ", groupedByType, groupedByType.get("Veg"))
/* Grouped by type -> but in Map Prototype
Map {
    "Veg" => [
     { id: 1, food: ">", type: "Veg" },
     { id: 3, food: "/", type: "Veg" },
     { id: 5, food: ", type: "Veg" },
    ],
    "Non-Veg" => [
      { id: 2, food: "" , type: "Non-Veg" },
      { id: 4, food: ">", type: "Non-Veg" }
}
groupedByType.Veg -> To access the Veg object
*/
```

```
// Grouping in js ES5
const foodItems = [
  { id: 1, food: ">, type: "Veg" },
  { id: 2, food: "", type: "Non-Veg" },
  { id: 3, food: "/", type: "Veg" },
 { id: 4, food: "", type: "Non-Veg" },
  { id: 5, food: "", type: "Veg" },
function groupBy(arr0f0bj, idToGroup) {
  return arr0f0bj.reduce((acc, curr) => {
    const type = curr[idToGroup]
    if (acc[type] === undefined) acc[type] = [curr]
    else acc[type].push(curr)
    return acc
  }, {})
const groupedByType = groupBy(foodItems, "type")
console.log("Results: ", groupedByType, groupedByType.Veg)
/* Grouping - ES5 reduce method
{
 Veg: [
     { id: 1, food: ">", type: "Veg" },
     { id: 3, food: "/", type: "Veg" },
     { id: 5, food: ", type: "Veg" },
    ],
 Non-Veg: [
     { id: 2, food: "">", type: "Non-Veg" },
     { id: 4, food: ">", type: "Non-Veg" }
}
groupedByType.Veg -> To access the Veg object
*/
```