

4. 1 Array Exercise

Code

```
1  let data = [  
2    { name: "Nacho", telephone: "966112233", age: 40 },  
3    { name: "Ana", telephone: "911223344", age: 35 },  
4    { name: "Mario", phone: "611998877", age: 15 },  
5    { name: "Laura", telephone: "633663366", age: 17 }  
6  ];  
7  
8  // Add two more elements  
9  data.push({ name: "Pedro", telephone: "611944444", age: 25 },  
10    { name: "Julia", phone: "633232323", age: 37 });  
11  
12  console.log("Add two more elements");  
13  console.log(data);  
14  
15  // Sort by age  
16  data.sort(function (n1, n2) {  
17    return n1.age - n2.age;  
18  });  
19  console.log("Sort by age");  
20  console.log(data);  
21  
22  // Sort by name  
23  data.sort((a, b) => (a.name > b.name ? 1 : -1));  
24  console.log("Sort by name");  
25  console.log(data);  
26  
27  // Filter by age over 30  
28  console.log("Filter by age over 30");  
29  console.log(data.filter(function (a) {  
30    return a.age > 30;  
31  }));  
32  
33
```

Result

```
juasanlop2@I6-PC13:~/Escriptori/DI/DI-JuanJoseSanzLopez/1st term/3_1_Exercises_Array$ node exercisearrays.js
Add two more elements
[
  { name: 'Nacho', telephone: '966112233', age: 40 },
  { name: 'Ana', telephone: '911223344', age: 35 },
  { name: 'Mario', phone: '611998877', age: 15 },
  { name: 'Laura', telephone: '633663366', age: 17 },
  { name: 'Pedro', telephone: '611944444', age: 25 },
  { name: 'Julia', phone: '633232323', age: 37 }
]
Sort by age
[
  { name: 'Mario', phone: '611998877', age: 15 },
  { name: 'Laura', telephone: '633663366', age: 17 },
  { name: 'Pedro', telephone: '611944444', age: 25 },
  { name: 'Ana', telephone: '911223344', age: 35 },
  { name: 'Julia', phone: '633232323', age: 37 },
  { name: 'Nacho', telephone: '966112233', age: 40 }
]
Sort by name
[
  { name: 'Ana', telephone: '911223344', age: 35 },
  { name: 'Julia', phone: '633232323', age: 37 },
  { name: 'Laura', telephone: '633663366', age: 17 },
  { name: 'Mario', phone: '611998877', age: 15 },
  { name: 'Nacho', telephone: '966112233', age: 40 },
  { name: 'Pedro', telephone: '611944444', age: 25 }
]
Filter by age over 30
[
  { name: 'Ana', telephone: '911223344', age: 35 },
  { name: 'Julia', phone: '633232323', age: 37 },
  { name: 'Nacho', telephone: '966112233', age: 40 }
]
```