```html
<head>
</head>
<body>
    <h1>To do list</h1>
    <div class="contain">
        <ul id="res">

        </ul>
    </div>
    <script>
        let students=[
        {name:"Lê Mèo",age:4},
        {name:"Lê Thỏ",age:7},
        {name:"Lê Nai",age:7},
        {name:"Lê Gà",age:7}
      ]
        function loadStudents(){
            // for(let i=0;i<students.length;i++){
            //      let li=document.createElement("li")
            //      li.innerHTML=students[i].name
            //      res.appendChild(li)
            // }


        }
        loadStudents();
    const obj1={name:"Mèo",age:2}
    const arr1=[1,2,3]
    const arr2=[4,5,6]
    const arr3=[arr1,arr2]  //arr3=[[1,2,3],[4,5,6]]
    const arr4=[...arr1,...arr2,{...obj1}]  //arr3=[1,2,3,4,5,6]
    console.log(arr4)
    const arr5={...students}
    console.log(arr5)
    let sum=0;
    arr2.map(item=>{
        sum+=item;
    })
    console.log(sum)
    console.log(arr2.reduce((item,sum)=>sum+item,0))
    //filter
    </script>


</body>
</html>
```

```html
<html lang="en">
<body>
    <script>
        let students=[
         {name:"Lê Mèo",age:4},
         {name:"Lê Thỏ",age:7},
         {name:"Lê Nai",age:7},
         {name:"Lê Gà",age:8}
        ]
        function loadStudents(){
            // for(let i=0;i<students.length;i++){
            //     let li=document.createElement("li")
            //     li.innerHTML=students[i].name
            //     res.appendChild(li)
            // }


        }
        loadStudents();
    let obj1={name:"Mèo",age:2}
    const arr1=[1,2,3]
    const arr2=[4,5,6]
    const arr3=[arr1,arr2]  //arr3=[[1,2,3],[4,5,6]]
    const arr4=[...arr1,...arr2,{...obj1}]  //arr3=[1,2,3,4,5,6]
    console.log(arr4)
    const arr5={...students}
    console.log(arr5)
    let sum=0;
    arr2.map(item=>{
        sum+=item;
    })
    console.log(sum)
    console.log(arr2.reduce((item,sum)=>sum+item,0))
    console.log(arr2.filter(item=>item>4))
    console.log(students.filter(item=>item.age>6))
    obj1={...obj1,id:2,name:"Thỏ",name:"nai"}
    console.log(obj1)
    //filter
    </script>


</body>
</html>
```

```javascript
function minimax(arr,depth, ismax){
    let Result=checkWin();
    if(Result !=null){
        let score=sc[Result];
        return score;
    }
    if(ismax){
        let bestScore=-Infinity;
        for(let i=0;i<9;i++){
            if(arr[i]==""){
                arr[i]='X';
                let score=minimax(arr,depth+1,false)
                arr[i]="";
                if(score>bestScore){
                    bestScore=score
                }
            }

        }
        return bestScore;
    }
    else
    {
        let bestScore=Infinity;
        for(let i=0;i<9;i++){
            if(arr[i]==""){
                arr[i]='O';
                let score=minimax(arr,depth+1,true)
                arr[i]="";
                if(score<bestScore){
                    bestScore=score
                }
            }
        }

        return bestScore;
    }
}
```

```html
        <ul id="res">
        </ul>
    </div>
    <script>
        let students=[
          {id:1,name:"Lê Mèo",age:4},
          {id:2,name:"Lê Thỏ",age:7},
          {id:3,name:"Lê Nai",age:7},
          {id:4,name:"Lê Gà",age:8}
        ]
        function loadStudents(){
            res.innerHTML=""
            students.map(student=>{
                let li=document.createElement("li")
                li.innerHTML=student.name
                res.appendChild(li)
            })

        }
        addNew.addEventListener("keydown",function(e){
         if(e.key==="Enter"){
            addStudent();
            console.log("vô chưa")
         }
        })
        function addStudent(){
         let idMax=students.reduce((a, b) => Math.max(a.id, b.id), -Infinity);
            students=[...students,{id:idMax+1,name:addNew.value,age:20}]
            loadStudents();
            addNew.value=""
            console.log(students)
        }
        loadStudents();

    </script>
```

```
        </ul>
  </div>
<script>
    let students=[
      {id:1,name:"Lê Mèo",age:4,checked:true},
      {id:2,name:"Lê Thỏ",age:7,checked:true},
      {id:3,name:"Lê Nai",age:7,checked:false},
      {id:4,name:"Lê Gà",age:8,checked:false}
    ]
  if(localStorage.getItem("students")){
      students=JSON.parse(localStorage.getItem("students"))
  }
  function loadStudents(){
      res.innerHTML=""
      students.map(student=>{
          let li=document.createElement("li")
          li.innerHTML=student.name
          res.appendChild(li)
      })

  }
  addNew.addEventListener("keydown",function(e){
    if(e.key==="Enter"){
        addStudent();
    }
  })
  function addStudent(){
    let idMax=students.reduce((max_value, student) => Math.max(max_value, student.id), -Infinity);
      students=[...students,{id:idMax+1,name:addNew.value,age:20}]
      loadStudents();
      addNew.value=""
      console.log(students)
      localStorage.setItem("students",JSON.stringify(students))
  }
  loadStudents();
```

```html
body>
    </div>
    <script>
        let students=[
            {id:1,name:"Lê Mèo",age:4,checked:true},
            {id:2,name:"Lê Thỏ",age:7,checked:true},
            {id:3,name:"Lê Nai",age:7,checked:false},
            {id:4,name:"Lê Gà",age:8,checked:false}
        ]
        if(localStorage.getItem("students")){
            students=JSON.parse(localStorage.getItem("students"))
        }
        function loadStudents(){
            res.innerHTML=""
            students.map(student=>{
                let li=document.createElement("li")
                let p=document.createElement("p")
                p.innerHTML=student.name
                if(student.checked){
                    p.className="active"
                }
                p.addEventListener("click",()=>{
                    editStudent(student.id)
                })
                li.appendChild(p)
                let i=document.createElement("i")
                i.className="fa-solid fa-xmark"
                i.addEventListener("click",()=>{
                    removeById(student.id)
                })
                li.appendChild(i)

                res.appendChild(li)
            })

        }
        function editStudent(id){
            students=students.map(st=>st.id==id?{...st,checked:!st.checked}:st)
            console.log(students)
            loadStudents();
            localStorage.setItem("students",JSON.stringify(students))
        }
        function removeById(id){
         console.log(id)
            students= students.filter(st=>st.id!=id)
            loadStudents();
            localStorage.setItem("students",JSON.stringify(students))
        }
        addNew.addEventListener("keydown",function(e){
         if(e.key==="Enter"){
            addStudent();
         }
        })
        function addStudent(){
         let idMax=students.reduce((max_value, student) => Math.max(max_value, student.id), -Infinity);
            students=[...students,{id:students.length==0?1:idMax+1,name:addNew.value,age:20}]
            loadStudents();
            addNew.value=""
            console.log(students)
            localStorage.setItem("students",JSON.stringify(students))
        }
        loadStudents();

    </script>

/body>
```