# Javascript Localstorage

## Exercise 1

Save a user's age in localStorage.  
  
  
  
let userAge=25

#### Hints

localStorage.setItem can take a number as argument, but it will be automatically converted to a string.

#### Solution

localStorage.setItem("age", userAge)

## Exercise 2

Save a user's name in localStorage.  
  
  
  
let userName="joe"

#### Solution

localStorage.setItem("name", userName)

## Exercise 3

Save a user's name and age in localStorage.  
  
  
  
let userDetails={name:"joe", age:25}

#### Hints

To save objects in localStorage they should first be stringified using JSON.stringify().

#### Solution

localStorage.setItem("user", JSON.stringify(userDetails))

## Exercise 4

Load a user's name from localStorage. The value is stored in a key called "name".

#### Hints

localStorage.getItem will return 'null' if the key does not exist.

#### Solution

let userName=localStorage.getItem("name")

## Exercise 5

Load a user's age from localStorage. The value is stored in a key called "age".

#### Hints

localStorage.getItem will always return a string or null.

#### Solution

let userAge=localStorage.getItem("age")

## Exercise 6

Remove an array that is stored in localStorage. The array key is "notes".

#### Hints

localStorage.removeItem will not do anything if the key does not exist.

#### Solution

localStorage.removeItem("notes")

## Exercise 7

Save the following array of user objects in local storage.  
  
  
  
let users =[{"name":"user1","email":"user1@gmail.com"},{"name":"user2","email":"user2@gmail.com"},{"name":"user3","email":"user3@gmail.com"}]

#### Solution

localStorage.setItem("users", JSON.stringify(users))

## Exercise 8

Save the following JSON array of user objects in local storage.  
  
  
  
let users ='[{"name":"user1","email":"user1@gmail.com"},{"name":"user2","email":"user2@gmail.com"},{"name":"user3","email":"user3@gmail.com"}]'

#### Hints

A string can be stored in localStorage without conversion.

#### Solution

localStorage.setItem("users", users)

## Exercise 9

Load a user's age from localStorage. The value is stored in a stringified JSON object called "user" with property "age".

#### Hints

To get an object back from stringified JSON, use JSON.parse

#### Solution

let userAge=JSON.parse(localStorage.getItem("user")).age

## Exercise 10

Load a list of users from localStorage. The users are stored in a stringified JSON list called "users".

#### Solution

let users=JSON.parse(localStorage.getItem("users"))

## Exercise 11

Remove an element with index 2 in an array that is stored in localStorage. The array key is "notes".

#### Hints

Object cannot be modified directly in localStorage. You need to load them, modify and save them back.

#### Solution

let notes = JSON.parse(localStorage.getItem("notes"))  
  
notes.splice(2,1)  
  
localStorage.setItem("notes", JSON.stringify(notes))

## Exercise 12

Update the element "Robert" with the value "Cray" in an array that is stored in localStorage. The array key is "notes".

#### Solution

let notes = JSON.parse(localStorage.getItem("notes"))  
  
let index=notes.indexOf("Robert")  
  
notes[index]="Cray"  
  
localStorage.setItem("notes", JSON.stringify(notes))