Exercice Objects

Exercises

Exercises: Level 1

- 1. Create an empty object called dog
- 2. Print the the dog object on the console
- 3. Add name, legs, color, age and bark properties for the dog object. The bark property is a method which return *woof woof*
- 4. Get name, legs, color, age and bark value from the dog object
- 5. Set new properties the dog object: breed, getDogInfo

Exercises: Level 2

- 1. Find the person who has many skills in the users object.
- 2. Count logged in users, count users having greater than equal to 50 points from the following object.

```
const users = {
 Alex: {
   email: 'alex@alex.com',
   skills: ['HTML', 'CSS', 'JavaScript'],
   age: 20,
   isLoggedIn: false,
   points: 30
  Asab: {
   email: 'asab@asab.com',
   skills: ['HTML', 'CSS', 'JavaScript', 'Redux', 'MongoDB', 'Express', 'React', 'Node'],
   age: 25,
   isLoggedIn: false,
   points: 50
 },
   email: 'daniel@daniel.com',
   skills: ['HTML', 'CSS', 'JavaScript', 'React', 'Redux'],
    age: 30,
   isLoggedIn: true,
    points: 50
```

```
Daniel: {
  email: 'daniel@alex.com',
 skills: ['HTML', 'CSS', 'JavaScript', 'Python'],
 isLoggedIn: false,
 points: 40
},
John: {
 email: 'john@john.com',
 skills: ['HTML', 'CSS', 'JavaScript', 'React', 'Redux', 'Node.js'],
 age: 20,
 isLoggedIn: true,
 points: 50
Thomas: {
 email: 'thomas@thomas.com',
 skills: ['HTML', 'CSS', 'JavaScript', 'React'],
 age: 20,
 isLoggedIn: false,
 points: 40
Paul: {
 email: 'paul@paul.com',
 skills: ['HTML', 'CSS', 'JavaScript', 'MongoDB', 'Express', 'React', 'Node'],
 isLoggedIn: false,
 points: 40
```

- 1. Find people who are MERN stack developer from the users object
- 2. Set your name in the users object without modifying the original users object
- 3. Get all keys or properties of users object
- 4. Get all the values of users object
- 5. Use the countries object to print a country name, capital, populations and languages.

Exercises: Level 3

Create an object literal called personAccount. It has firstName, lastName, incomes, expenses properties and it has totalIncome, totalExpense, accountInfo,addIncome, addExpense and accountBalance methods. Incomes is a set of incomes and its description and expenses is a set of incomes and its description.

2. *** Questions:2, 3 and 4 are based on the following two arrays:users and products ()

```
const users = [
        _id: 'ab12ex',
       username: 'Alex',
       email: 'alex@alex.com',
       password: '123123',
        createdAt: '08/01/2020 9:00 AM',
       isLoggedIn: false
   },
       _id: 'fg12cy',
       username: 'Asab',
       email: 'asab@asab.com',
        password: '123456',
       createdAt: '08/01/2020 9:30 AM',
       isLoggedIn: true
       _id: 'zwf8md',
       username: 'Brook',
       email: 'brook@brook.com',
        password: '123111',
       createdAt: '08/01/2020 9:45 AM',
       isLoggedIn: true
    },
       _id: 'eefamr',
       username: 'Martha',
       email: 'martha@martha.com',
       password: '123222',
       createdAt: '08/01/2020 9:50 AM',
       isLoggedIn: false
    },
       _id: 'ghderc',
       username: 'Thomas',
       email: 'thomas@thomas.com',
       password: '123333',
       createdAt: '08/01/2020 10:00 AM',
       isLoggedIn: false
    ];
    const products = [
    _id: 'eedfcf',
   name: 'mobile phone',
    description: 'Huawei Honor',
    price: 200,
    ratings: [
     { userId: 'fg12cy', rate: 5 },
     { userId: 'zwf8md', rate: 4.5 }
```

```
likes: []
},
{
    _id: 'aegfal',
    name: 'Laptop',
    description: 'MacPro: System Darwin',
    price: 2500,
    ratings: [],
    likes: ['fg12cy']
},
{
    _id: 'hedfcg',
    name: 'TV',
    description: 'Smart TV:Procaster',
    price: 400,
    ratings: [{ userId: 'fg12cy', rate: 5 }],
    likes: ['fg12cy']
}
```

magine you are getting the above users collection from a MongoDB database. a. Create a function called signUp which allows user to add to the collection. If user exists, inform the user that he has already an account.b. Create a function called signIn which allows user to sign in to the application

- The products array has three elements and each of them has six properties.
 a. Create a function called rateProduct which rates the product b. Create a function called averageRating which calculate the average rating of a product
- 2. Create a function called likeProduct. This function will helps to like to the product if it is not liked and remove like if it was liked.