

Exercises 1

1.- Given the following age: **var age = 20;**

Create a program that checks if person is old enough to drink. Knowing that you must be 21 years old to drink. If a person is younger than 21 please show the following message "You are not old enough to drink", and if she/he is old enough then show this message: "You are allowed to drink".

2.- How to access the last element in any array. Given the array **var arr = [2,4,8,9, 20]**. We know we can access the last element by doing **arr[4]**, but what will be the global solution?

3.- Given the array: **var arr = [2,5,7,13,10];**

Create a function called **sumOfElements** that takes an array as an argument, and this function should return the sum of all of the elements.

4.- Given the array: **var arr = [2,5,7,9,20, 13, 30];**

Create a function called **sumOfElements** that takes an array as an argument. Find the sum of all of the elements except 7 and have your function return the result.

5.- Given the array: **var arr = [2, 5, 8, 13, 10, 21]** and number **13**.

Create a function called **findIndex** that takes 2 arguments. The first argument is an array and the second argument is a number. Please check if this element belongs to the array and if it does return its index, and if the element doesn't belong to the array simply return a message that says: "The element (number) doesn't belong to the array". (Hint: you can use **indexOf** built-in function).

6.- Given the array: **var arr = [2, 5, 8, 13, 4, 11];**

Create a function called **sumOfEvenNumbers** that takes an array as an argument, and returns the sum of ONLY even numbers. Hint: you can use modulo operator **%**. Example: if **(myNumber % 2 === 0)**, then we know it's an even number.

7.- Given the array: **var arr = [2, 6, 10, 5, 8, 20];**

Create a function called **sumOfEvenNumbers** that takes an array as an argument. Loop through the array and if you find an odd number break out of the loop and return the sum of the previous elements.

Expected result should be 18 (2 + 6 + 10).

8.- Please create an array of only the keys of the following object:

```
var person = {  
  name: 'Mike',  
  age: 20,  
  hobby: 'Music',  
  sport: 'soccer'  
}
```

Expected result: ['name', 'age', 'hobby', 'sport']

9.- Create a function called **findPersonHobby** that takes 2 parameters (an array object and a person's name). Please find out if this person is in the array object, and if she/he is then the function should return his hobby.

```
a) personName = 'Mike'  
b) array object:  
var arr = [  
  {  
    name: 'Mike',  
    age : 23,  
    hobby: 'Dancing'  
  },  
  {  
    name: 'Mike',  
    age : 20,  
    hobby: 'Music'  
  },  
  {  
    name: 'Peter',  
    age : 30,  
    hobby: 'Painting'  
  }  
]
```

Hint: Your function should look like this:

```
function findPersonHobby(arr, personName){  
  ...  
}
```

10.- Create a function called **print** that takes an integer as an argument (n), and prints n asteriks. For example: if n = 4 then expected result should ****