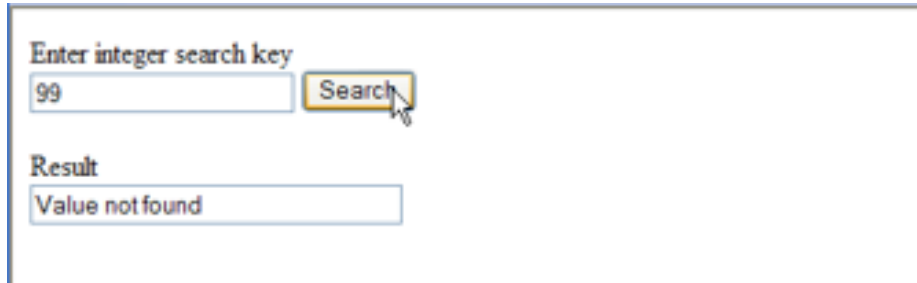


## Javascript Oriented programming Project 6

1. Create a javascript program that iterates through the elements of an array until it finds an element that matches a search key (you may define whatever search key you want), and returns the index of the element.

If the key is not found, the function returns -1. The output in the webpage can be like that:



The screenshot shows a web form with a label "Enter integer search key" above a text input field containing the number "99". To the right of the input field is a "Search" button. Below the input field is a label "Result" above another text input field containing the text "Value not found".

2. Write a JavaScript program which compute, the average mark of students' courses.  
//Average= (grade1+grade2+grade3+...)/grades.length

Then, this average is used to determine the corresponding grade.  
(ie. if avg < 60 then display grade: F)

Requirement: use a 2-dimensional array:

```
var grades = [[Math, 80], [Physics, 77], [history, 88],...];
```

hint: Try using the code below and see what you get...

```
for (var i=0; i < grades.length; i++) {  
    console.log(grades [i][1]);  
}
```

Present the results in your html body as you prefer.

3. Prompt the user for a number in the range 0...100. If the number is out of range, **display an error message and prompt again until a valid number is entered. Use while loop!**
4. Lets say that we have two arrays, like the ones below  

```
let aristeasFriends = ['Maria', 'Marina', 'Elena', 'Pola', 'Nick', 'Loukas'];  
let mariasFriends = ['Panos', 'Maria', 'Marina', 'Pola', 'Kostas', 'Andrew'];
```

➔ Create a new array that contains the mutual elements of the arrays . (ie: 'Maria', 'Marina', 'Pola' )