

RegEx

Q.1 Test the first character of a string is uppercase or not.

Q.2 Write a Regex which accept only string values.(without any spaces)

Q.3 Write Regex which accept only numerical values.

Q.4 Write Regex which checks whether a given value is an valid url or not.

Q.5 Write Regex which checks whether a given value is hex-color value or not.

Objects

Q.6 Write a JavaScript program to delete the rollno property from the following object.

Also print the object before or after deleting the property.

Sample object:

```
var student = {  
    name : "David Rayy",  
    sclass : "VI",  
    rollno : 12  
};
```

Q.7 Write a JavaScript program to get the length of an JavaScript object.

Sample object :

```
var student = {  
    name : "David Rayy",  
    sclass : "VI",  
    rollno : 12  
};
```

Q.8 Add a new method to an existing prototype.

Array

Q.9 Create a function which finds and return the second largest number in an array.

Q.10 Write a JavaScript program to compute the union of two arrays.

Sample Data :

```
console.log(union([1, 2, 3], [100, 2, 1, 10]));
```

```
[1, 2, 3, 10, 100]
```

Q. 11 Write a JavaScript function to check whether an `input` is an array or not.

Test Data :

```
console.log(is_array('w3resource'));
```

```
console.log(is_array([1, 2, 4, 0]));
```

```
false
```

```
true
```

Q. 12 Write a JavaScript function to get the first element of an array. Passing a parameter 'n' will return the first 'n' elements of the array.

Test Data :

```
console.log(first([7, 9, 0, -2]));
```

```
console.log(first([],3));
```

```
console.log(first([7, 9, 0, -2],3));
```

```
console.log(first([7, 9, 0, -2],6));
```

```
console.log(first([7, 9, 0, -2],-3));
```

Expected Output :

```
7
```

```
[]
```

```
[7, 9, 0]
```

```
[7, 9, 0, -2]
```

```
[]
```

Q.13 Write a JavaScript program to find the most frequent item of an array.

Sample array : `var arr1=[3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3];`

Sample Output : a (5 times)

Q.14 Write a JavaScript program to compute the sum and product of an array of integers.

Q.15 Write a JavaScript program to add items in an blank array and display the items.

Q.16 Write a JavaScript program which prints the elements of the following array. Note : Use nested for loops.

Sample array : `var a = [[1, 2, 1, 24], [8, 11, 9, 4], [7, 0, 7, 27], [7, 4, 28, 14], [3, 10, 26, 7]];`

Sample Output :

```
"row 0" " 1" " 2" " 1" " 24" "row 1"
```

Q.17 Write a JavaScript function to remove. 'null', '0', '""', 'false', 'undefined' and 'NaN' values from an array.

Sample array : `[NaN, 0, 15, false, -22, "",undefined, 47, null]`

Expected result : `[15, -22, 47]`