

# ARRAYS AND LOOP

Arrays and loop | JAVASCRIPT

1. Declare and initialize an empty multidimensional array.  
(Array of arrays)

2. Declare and initialize a multidimensional array representing the following matrix:

0	1	2	3
1	0	1	2
2	1	0	1

3.  
Write a program to print numeric counting from 1 to 10.

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

4. Write a program to print multiplication table of any number using for loop. Table number & length should be taken as an input from user.

Enter a number to show its multiplication table

OK

Cancel

Enter length multiplication table

OK

Cancel

Multiplication table of 2  
Length 15

$$2 \times 1 = 2$$

$$2 \times 2 = 4$$

$$2 \times 3 = 6$$

$$2 \times 4 = 8$$

$$2 \times 5 = 10$$

$$2 \times 6 = 12$$

$$2 \times 7 = 14$$

$$2 \times 8 = 16$$

$$2 \times 9 = 18$$

$$2 \times 10 = 20$$

$$2 \times 11 = 22$$

$$2 \times 12 = 24$$

$$2 \times 13 = 26$$

$$2 \times 14 = 28$$

$$2 \times 15 = 30$$

5. Write a program to print items of the following array using for loop:

```
fruits = ["apple", "banana", "mango", "orange",  
"strawberry"]
```

```
apple  
banana  
mango  
orange  
strawberry
```

```
Element at index 0 is apple  
Element at index 1 is banana  
Element at index 2 is mango  
Element at index 3 is orange  
Element at index 4 is strawberry
```

6. Generate the following series in your browser. See example output.
- a. Counting: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
  - b. Reverse counting: 10, 9, 8, 7, 6, 5, 4, 3, 2, 1
  - c. Even: 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20
  - d. Odd: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19
  - e. Series: 2k, 4k, 6k, 8k, 10k, 12k, 14k, 16k, 18k, 20k

**Counting:**

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15,

**Reverse counting:**

10, 9, 8, 7, 6, 5, 4, 3, 2, 1,

**Even:**

0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20,

**Odd:**

1, 3, 5, 7, 9, 11, 13, 15, 17, 19,

**Series:**

2k, 4k, 6k, 8k, 10k, 12k, 14k, 16k, 18k, 20k,

7. You have an array

A = ["cake", "apple pie", "cookie", "chips", "patties"]

Write a program to enable "search by user input" in an array.

After searching, prompt the user whether the given item is found in the list or not. Example:

Welcome to ABC Bakery. What do you want to order sir/ma'am?

OK Cancel

cookie is **available** at index 2 in our bakery

Welcome to ABC Bakery. What do you want to order sir/ma'am?

OK Cancel

We are sorry. pastry is **not available** in our bakery

8. Write a program to identify the largest number in the given array.

A = [24, 53, 78, 91, 12].

Array items: 24,53,78,91,12  
The largest number is 91

9. Write a program to identify the smallest number in the given array.

A = [24, 53, 78, 91, 12]

Array items: 24,53,78,91,12  
The smallest number is 12

10. Write a program to print multiples of 5 ranging 1 to 100.

