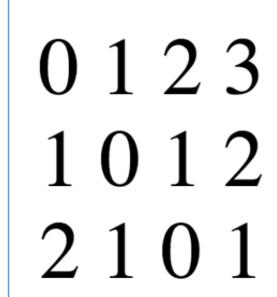
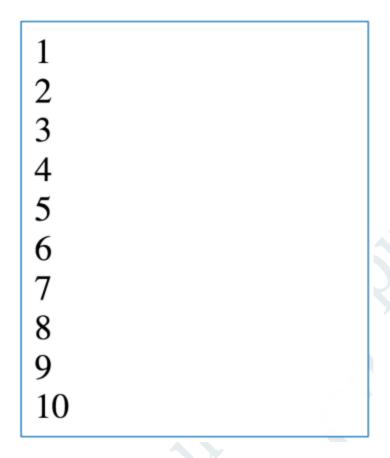
# **ARRAYS AND LOOP**

Assignment # 17-20
JAVASCRIPT

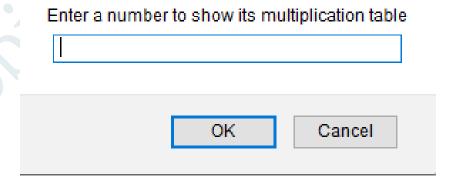
- Declare and initialize an empty multidimensional array. (Array of arrays)
- 2. Declare and initialize a multidimensional array representing the following matrix:



3. Write a program to print numeric counting from 1 to 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 length multiplication table

oĸ

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,

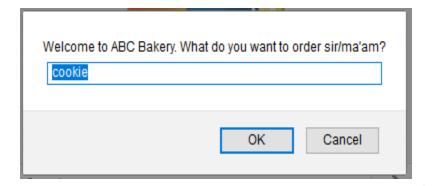
#### Series:

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:



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

Welcome to ABC Bakery. Wha	t 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.

5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100,

11. Write a program that prints number from start of the array to desired stop value. Given array:

var scores = [12, 45, 3, 22, 34, 50];

(Hint: take stop value from user)

E.g. if user gives 3 as input value print 12, 45, 3

if user gives 34 as input value print 12, 45, 3, 22, 34

#### 12. The even/odd reporter

Write a for loop that will iterate from 0 to 20. For each iteration, it will check if the current number is even or odd, and report that to the screen (e.g. "2 is even").

0 is even 1 is odd 2 is even 3 is odd 4 is even 5 is odd 6 is even 7 is odd 8 is even 9 is odd 10 is even 11 is odd 12 is even 13 is odd 14 is even 15 is odd 16 is even 17 is odd 18 is even 19 is odd 20 is even

Write a program to calculate the product of the odd integers from 1 to 7.

The product of the odd integers from 1 to 7 is 105

14. Write a program that will write out a wedge of stars. The user will enter the initial number of stars, and the program will write out lines of stars where each line has one few star than the previous line. Initial number of stars: 7

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<sup>15.</sup> Write a program to create the following patterns in your browser. Take number of lines as an input.

a. \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*

\*\*\*\* b. \* \*\* \*\*\* \*\*\*

c. \*\*\*\*\* \*\*\*\* \*\*

\*

d. \*

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