

FOR LOOPS

Assignment # 18-20
JAVASCRIPT

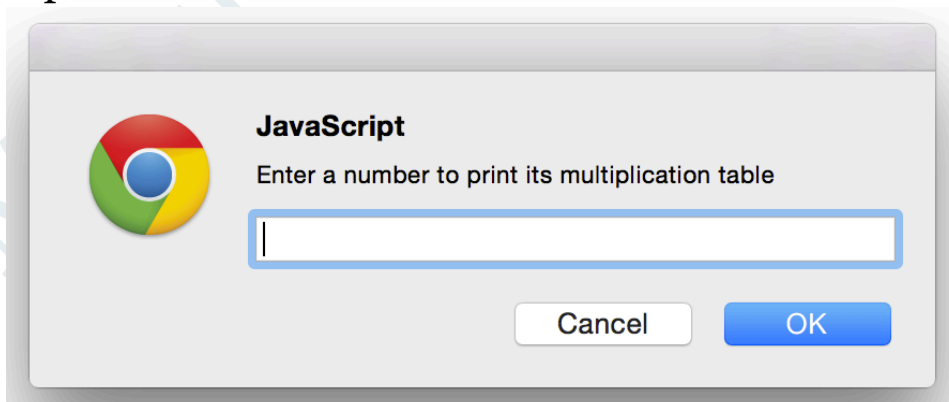
MODULE A - Mobile & Cloud Computing

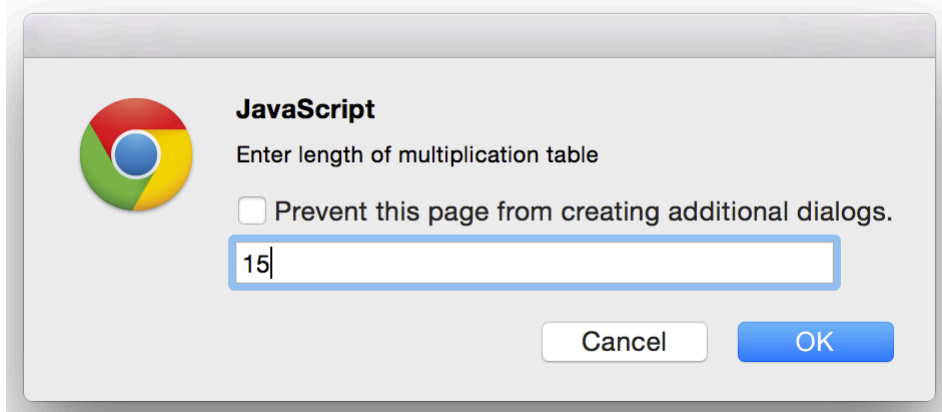
| FOR LOOPS |

1. Write a program to display the message “Hello World” 5 times in your browser using for loop.
2. Write a program to print numeric counting from 1 to 10.

1
2
3
4
5
6
7
8
9
10

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





Multiplication table of 2
Length 15

2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20
2 x 11 = 22
2 x 12 = 24
2 x 13 = 26
2 x 14 = 28
2 x 15 = 30

4. You have an array

A = ["Nokia", "Samsung", "Apple", "Sony", "Huawei"]

Write each element on new line with the help of for loop.

```
Nokia  
Samsung  
Apple  
Sony  
Huawei
```

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. Write a program to initialize an array of N items by using prompt. Where N is number of items as entered by the user.

JavaScript
Enter number of items
☐ Prevent this page from creating additional dialogs.
4
Cancel OK

JavaScript
Enter value for index 0
☐ Prevent this page from creating additional dialogs.
keyboard
Cancel OK

JavaScript
Enter value for index 1
☐ Prevent this page from creating additional dialogs.
mouse
Cancel OK

JavaScript
Enter value for index 2
☐ Prevent this page from creating additional dialogs.
flash drive
Cancel OK

JavaScript
Enter value for index 3
☐ Prevent this page from creating additional dialogs.
cpu
Cancel OK

Number of items: 4

Items:

keyboard

mouse

flash drive

cpu

7. 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:

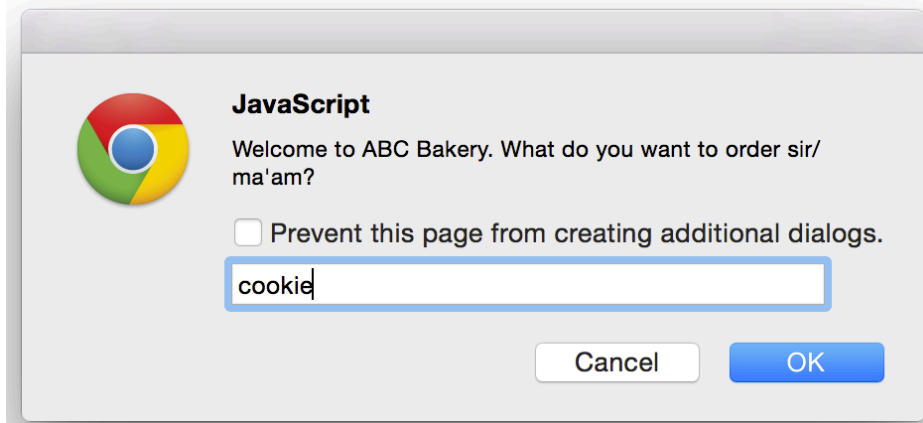
2k, 4k, 6k, 8k, 10k, 12k, 14k, 16k, 18k, 20k,

8. You have an array

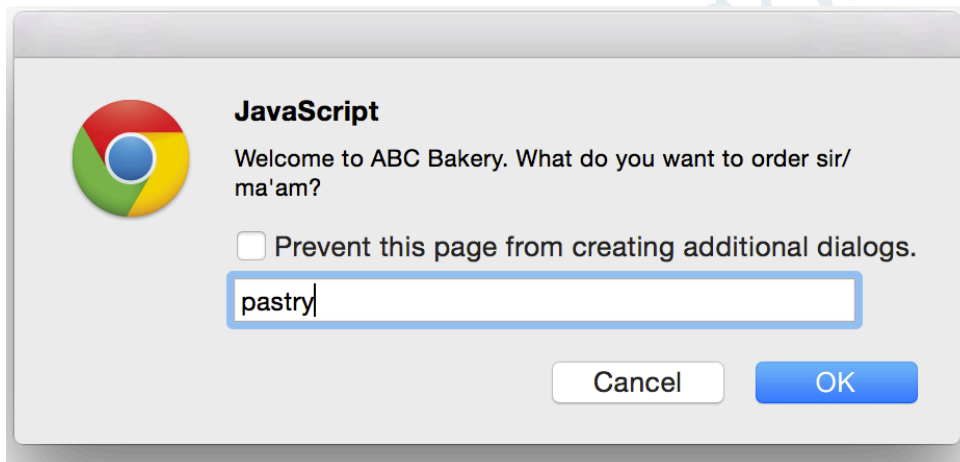
A = ["cake", "apple pie", "cookie", "chips", "patties"]

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



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

9. 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

10. 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

11. Write a program to identify the largest & 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
The largest number is 91

12. 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,

13. You have given the following arrays:

```
var students = ["Ali", "Sami", "Taha", "Inam"];  
var scores = [58, 73, 89, 90];
```

Write a program to generate the following HTML table in your browser using JS.

Students	Scores
Ali	58
Sami	73
Taha	89
Inam	90

14. 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

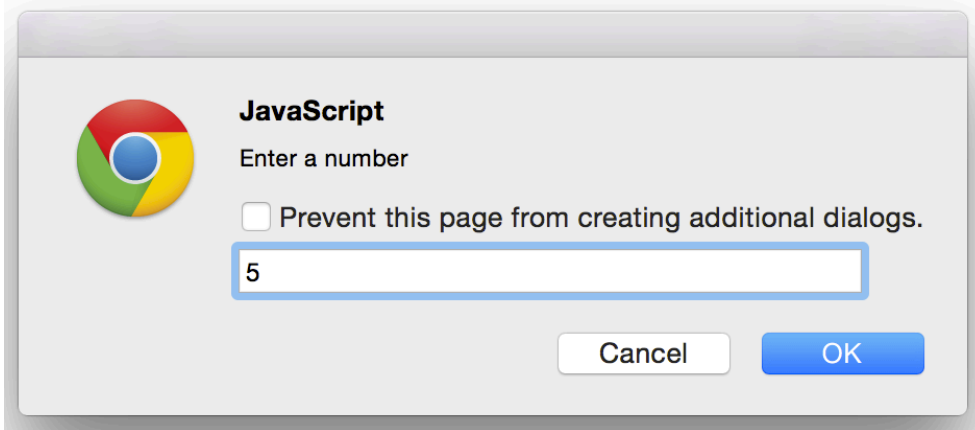
15. You have an array

```
A = [ [1,2,3] , [4,5,6] , [7,8,9] ]
```

Write each element on new line with the help of nested for loops.

```
1 2 3
4 5 6
7 8 9
```

16. Write a program to repeatedly print the value of the variable **num** which is input by user. Value should be decreasing by 0.5 each time, as long as x Value remains positive.



```
5, 4.5, 4, 3.5, 3, 2.5, 2, 1.5, 1, 0.5, 0,
```

17. **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

18. 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

19. 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 fewer star than the previous line. Initial number of stars: 7

```
*****  
*****  
*****  
****  
***  
**  
*
```

20. Write a program to create the following patterns in your browser. Take number of lines as an input.

a. *****

b. *
**

c. *****

**
*

-- END --