FOR LOOPS

Assignment # 18-20
JAVASCRIPT

MODULE A -•- Mobile & Cloud Computing

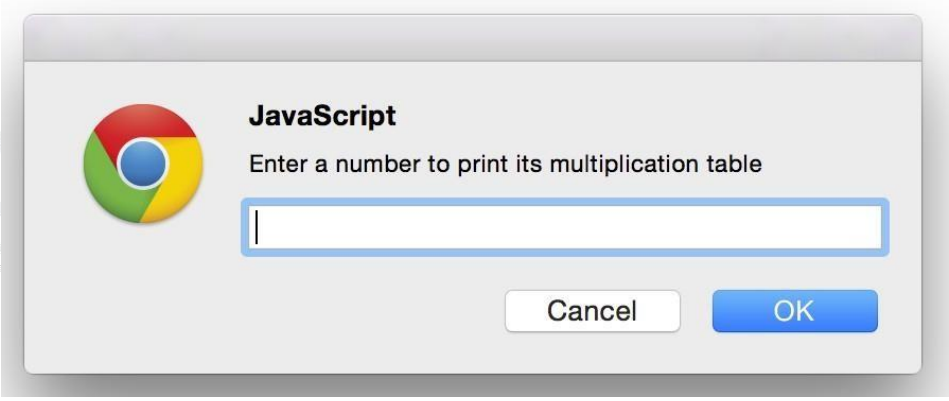
| FOR LOOPS |

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.



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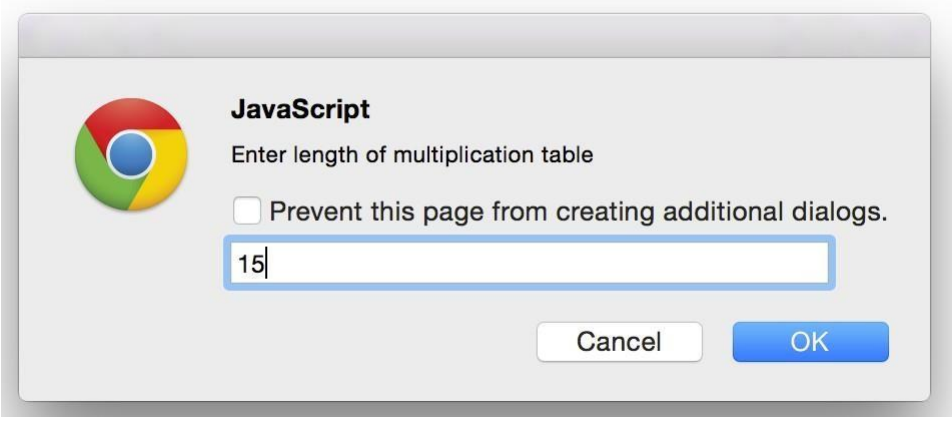

Multiplication table of 2
Length 15

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.

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```
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.

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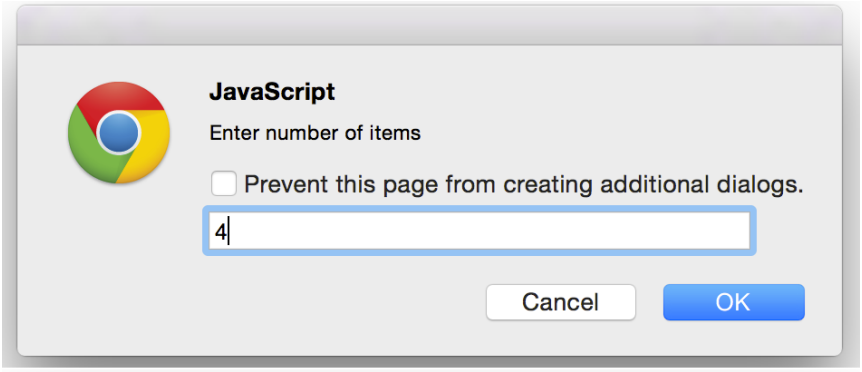
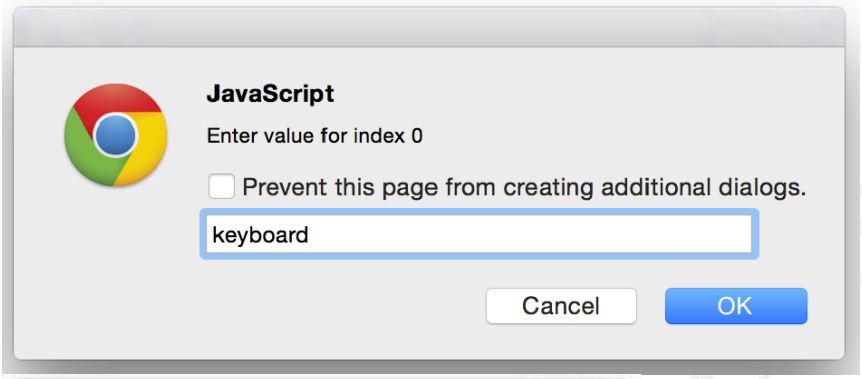
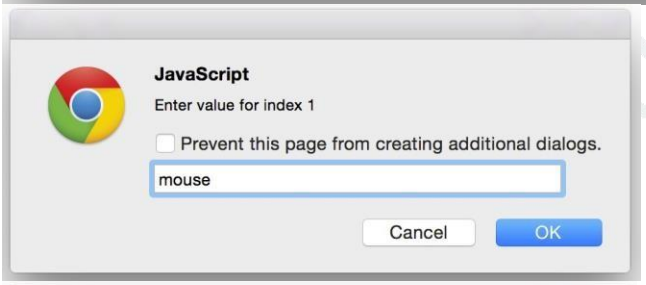
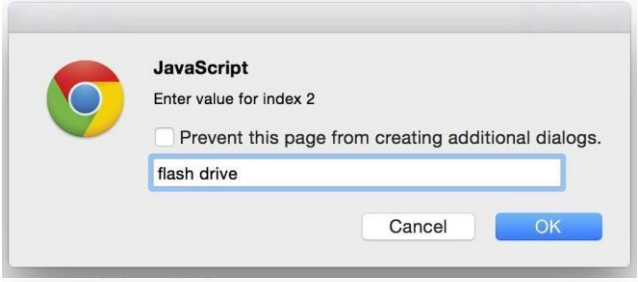
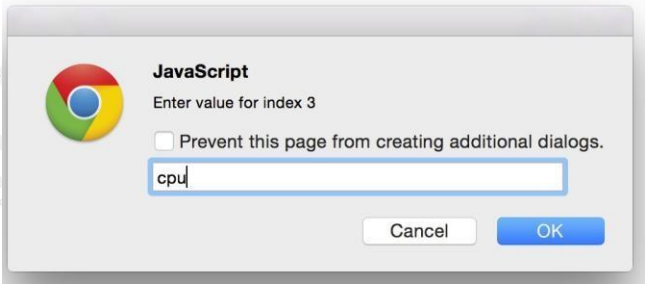

JavaScript
Enter number of items
Prevent this page from creating additional dialogs.
4
Cancel
OK


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

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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:

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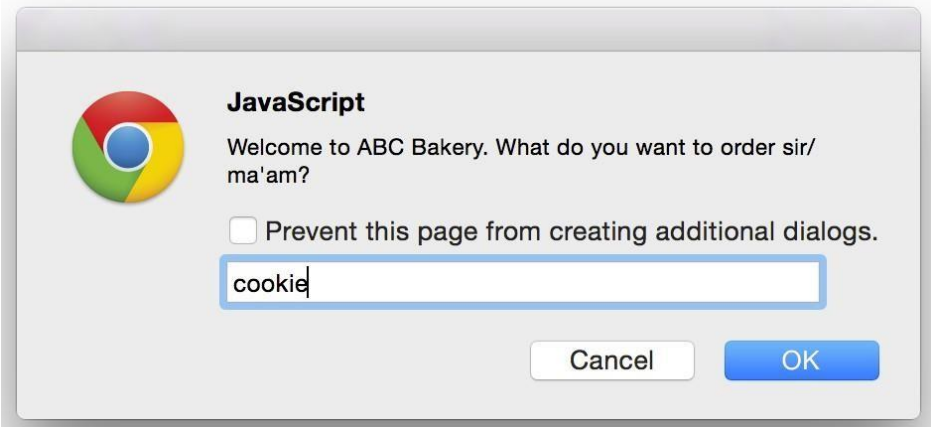
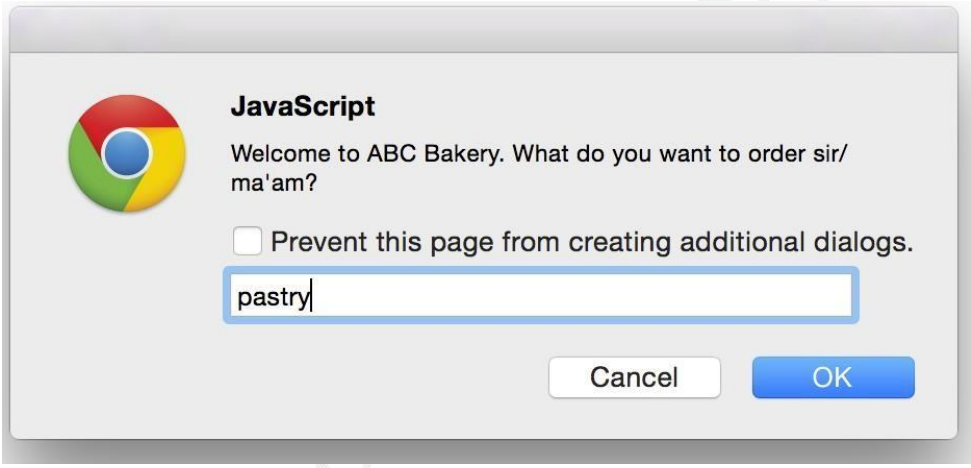


cookie is **available** at index 2 in our bakery



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,
```

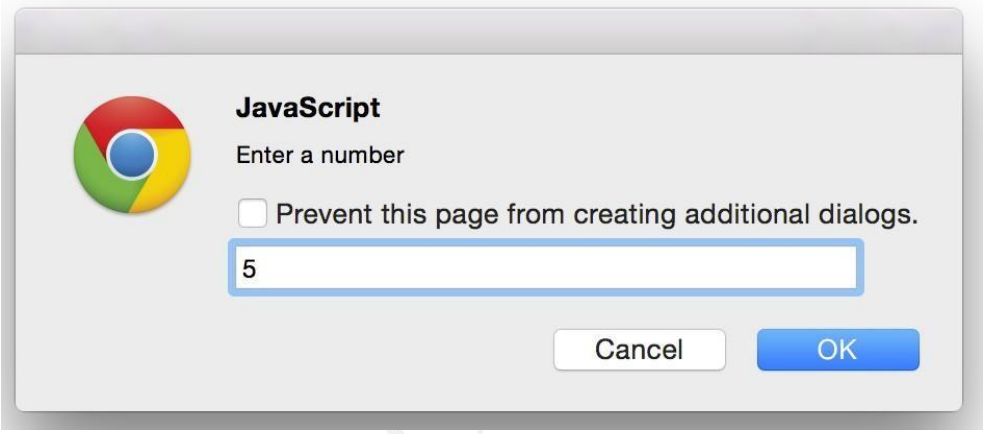
13. Write a program that prints number from start of the array

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

14. 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
```

15. 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,
```

16. 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
```

17. 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
```

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

a.
```
*****
*****
*****
*****
```

b.
```
*
**
***
****
*****
```

c.
```
*****
****
***
**
*
```

19. Write a programs to extract vowels from alphabets array using for loop.

Example:

var array = [“a”, “b”, “c”, …]
var vowels = [“a”, “e”, “i”, “o”, “u”]

20. Write a program to convert the first letter of the variable into uppercase, rest of the letters will convert into lowercase.

Example:

var name = “aHmEd”
result = “Ahmed”

21. Write a program using for loop to find the longest word

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from an array of words and return longest word.

22. Write a program to ask a user to enter any string with special character if you found any ! or . then give him a message that exclamation mark or dot found.

23. Write a program using for loop to find a factorial of a number of 4.
    Note : Example : Factorial Num of 4 is : 4*3*2*1 = 24.

24. Write a program using for loop to find the square root of a given value.
    Example: var value = 3;
    Result: 9

25. How to count character occurrences in a string using javascript.

    Example: how many ‘a’ are there in shahzadaahmed.
    Result: 4

26. Write a program using for loop to replace “the” into “a”.

Example:
The sentence is “the quick brown box jump over the lazy dog”.

-- END --