

# ARRAYS

Assignment # 14-17  
JAVASCRIPT

MODULE A - Mobile & Cloud Computing

## | IF STATEMENTS NESTED | ARRAYS |

1. Declare an empty array using JS literal notation to store student names in future.
2. Declare an empty array using JS object notation to store student names in future.
3. Declare and initialize a strings array.
4. Declare and initialize a numbers array.
5. Declare and initialize a boolean array.
6. Declare and initialize a mixed array.
7. Declare and Initialize an array and store available mobile networks in Pakistan.
8. Declare and Initialize an array and store available education qualifications in Pakistan (e.g. SSC, HSC, BCS, BS, BCOM, MS, M. Phil., PhD). Show the listed qualifications in your browser like:

**Qualifications:**

- 1) SSC
- 2) HSC
- 3) BCS
- 4) BS
- 5) BCOM
- 6) MS
- 7) M. Phil.
- 8) PhD

9. Declare and initialize an empty array to store top movies of 2015. Add movies one by one in an array. Display the elements & length of array in your browser. (Use array's length method)

**Top movies of 2015**

- 1) Avengers: Age of Ultron
- 2) Spectre
- 3) Jurassic World
- 4) Inside Out

**Length of the array: 4**

10. Declare and Initialize an array with your favorite cars. Show
- a. First index of the array
  - b. Car at first index of the array
  - c. Last index of the array

d. Car at last index of the array

### **Favorite Cars**

Audi,Volvo,Ford,Lamborghini

First index of the array: 0

Car at first index of the array: Audi

Last index of the array: 3

Car at last index of the array: Lamborghini

11. Write a program to store 3 student names in an array. Take another array to store score of these three students. Assume that total marks are 500 for each student, display the scores & percentages of students like:

Score of Michael is 320. Percentage: 64%

Score of John is 230. Percentage: 46%

Score of Tony is 480. Percentage: 96%

12. Initialize an array with color names. Display the array elements in your browser.
- Ask the user what color he/she wants to add to the beginning & add that color to the beginning of the array. Display the updated array in your browser.
  - Ask the user what color he/she wants to add to the end & add that color to the end of the array. Display the updated array in your browser.
  - Add two more color to the beginning of the array. Display the updated array in your browser.

- d. Delete the first color in the array. Display the updated array in your browser.
  - e. Delete the last color in the array. Display the updated array in your browser.
  - f. Ask the user at which index he/she wants to add a color & color name. Then add the color to desired position/index. . Display the updated array in your browser.
  - g. Ask the user at which index he/she wants to delete color(s) & how many colors he/she wants to delete. Then remove the same number of color(s) from user-defined position/index. . Display the updated array in your browser.
13. Write a program to store student scores in an array & sort the array in ascending order using Array's sort method.

Scores of Students : 320,230,480,120  
Ordered Scores of Students : 120,230,320,480

14. Write a program to sort the below mentioned array:  
var fruits = ["strawberry", "apple", "orange", "banana"];

Fruits list:  
strawberry,apple,orange,banana

Ordered fruits list:  
apple,banana,orange,strawberry

15. Write a program to initialize an array with city names. Copy 3 array elements from ***cities*** array to ***selectedCities*** array.

Cities list:

Karachi,Lahore,Islamabad,Quetta,Peshawar

Selected cities list:

Islamabad,Quetta

16. Write a program to create a single string from the below mentioned array:

```
var arr = ["This ", " is ", " my ", " cat"];
```

(Use array's join method)

Array:

This,is,my,cat

String:

This is my cat

17. Create a new array. Store values one by one in such a way that you can access the values in the order in which they were stored. (FIFO-First In First Out)

Devices:  
keyboard,mouse,printer,monitor

Out:  
keyboard

Out:  
mouse

Out:  
printer

Out:  
monitor

18. Create a new array. Store values one by one in such a way that you can access the values in reverse order. (Last In-First Out)

Devices:  
keyboard,mouse,printer,monitor

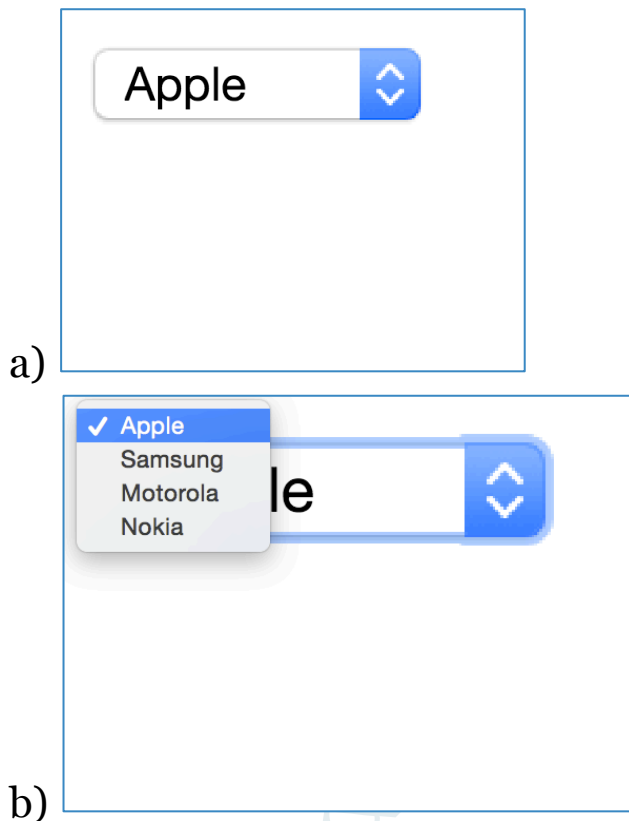
Out:  
monitor

Out:  
printer

Out:  
mouse

Out:  
keyboard

19. Write a program to store phone manufacturers (Apple, Samsung, Motorola, Nokia, Sony & Haier) in an array. Display the following dropdown/select menu in your browser using `document.write()` method:



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



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

-- END --