

## EXERCISE - ARRAY - I

- *Declare an empty array;*
- *Declare an array with more than 5 number of elements*
- *Find the length of your array*
- *Get the first item, the middle item and the last item of the array*
- *Declare an array called `mixedDataTypes`, put different data types in the array and find the length of the array. The array size should be greater than 5*
- *Declare an array variable name `itCompanies` and assign initial values Facebook, Google, Microsoft, Apple, IBM, Oracle and Amazon*
- *Print the array using `console.log()`*
- *Print the number of companies in the array*
- *Print the first company, middle and last company*
- *Print out each company Change each company name to uppercase one by one and print them out*
- *Print the array like as a sentence: Facebook, Google, Microsoft, Apple, IBM, Oracle and Amazon are big IT companies. Using `join()` method*
- *Check if a certain company exists in the `itCompanies` array. If it exist return the company else return a company is not found*

## EXERCISE - ARRAY - II

- In the following shopping cart add, remove, edit items  

```
var shoppingCart = ['Milk', 'Coffee', 'Tea', 'Honey']
```

  - add 'Meat' in the beginning of your shopping cart if it has not been already added
  - add Sugar at the end of you shopping cart if it has not been already added
  - remove 'Honey' if you are allergic to honey
  - modify Tea to 'Green Tea'
- In countries array check if 'India' exists in the array if it exists print 'INDIA'. If it does not exist add to the countries list.
- Concatenate the following two arrays and store it in a fullStack variable.  

```
['HTML', 'CSS', 'JS', 'React'] ['Node', 'Express', 'MongoDB']
```

## EXERCISE - ARRAY - III

- The following is an array of 10 students ages: `var ages = [19, 22, 19, 24, 20, 25, 26, 24, 25, 24]`
  - Sort the array and find the min and max age
  - Find the median age(one middle item or two middle items divided by two)
  - Find the average age(all items divided by number of items)
  - Find the range of the ages(max minus min)
  - Compare the value of (min - average) and (max - average), use `abs()` method
- You are developing a word game. Write a function that takes an array of words and returns a new array containing only the words with more than three letters.
- You are building a shopping cart. Write a JavaScript that removes an item from the cart based on the item's name.