

# 3 PILLAR GLOBAL ASSIGNMENTS

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## JAVASCRIPT ASSIGNMENTS

Day: 05

Level: 01

1. `Var arr = [];`
2. `Var arr = [1,2,3,4,5,6];`
3. `Concole.log(arr.length);`
4. `//first item`  
`Console.log(arr[0]);`  
  
`//middle item`  
`If(arr.length % 2 == 0){`  
`Console.log(arr[arr.length/2]);`  
`Console.log(arr[(arr.length/2) - 1]);`  
`} else{`  
`Console.log(arr[arr.length]);`  
`}`  
  
`//end item`  
`Console.log(arr[arr.length - 1]);`
5. `Var mixedDataTypes = [1, "Shruti", true, 69.3, false, "Verma", 34];`  
`Console.log(mixedDataTypes.length);`
6. `var itCompanies = ['Facebook', 'Google', 'Microsoft', 'Apple', 'IBM', 'Oracle', 'Amazon'];`
7. `console.log(itCompanies);`
8. `console.log(itCompanies.length);`
9. `var arr = ['Facebook', 'Google', 'Microsoft', 'Apple', 'IBM', 'Oracle', 'Amazon'];`  
`If(arr.length % 2 == 0){`  
`Console.log(arr[arr.length/2]);`  
`Console.log(arr[(arr.length/2) - 1]);`  
`} else{`  
`Console.log(arr[arr.length]);`  
`}`
10. `var itCompanies = ['Facebook', 'Google', 'Microsoft', 'Apple', 'IBM', 'Oracle', 'Amazon'];`  
`for(var I = 0; I < itcompanies.length; i++){`

```

        console.log(itCompanies[i]);
    }

11. var itCompanies = ['Facebook', 'Google', 'Microsoft', 'Apple', 'IBM', 'Oracle', 'Amazon'];
    for(var i = 0; i < itCompanies.length; i++){
        console.log(itCompanies[i].toUpperCase());
    }

12. var itCompanies = ['Facebook', 'Google', 'Microsoft', 'Apple', 'IBM', 'Oracle', 'Amazon'];
    var sentence = itCompanies.join().slice(0, itCompanies.length - 1).join(", ") + ", and" +
    arr.slice(-1);
    console.log(`${sentence} are big IT companies`);

13. var itCompanies = ['Facebook', 'Google', 'Microsoft', 'Apple', 'IBM', 'Oracle', 'Amazon'];
    if(itCompanies.includes("Google")){
        console.log("Google");
    } else{
        Console.log("Company not found");
    }

14. console.log(itCompanies.sort());
15. console.log(itCompanies.reverse());
16. console.log(itCompanies.slice(0, 3));

```

### Level: 02

```

1. let text = 'I love teaching and empowering people. I teach HTML, CSS, JS, React, Python.';
   let words = text.split(/[,.\s.]/gi);
   console.log(words);
   console.log(words.length);

2. const shoppingCart = ['Milk', 'Coffee', 'Tea', 'Honey'];

   if(!shoppingCart.includes("Meat")){
       shoppingCart.unshift("Meat");
   }

   if(!shoppingCart.includes("Sugar")){
       shoppingCart.push("Sugar");
   }

   shoppingCart.pop();

   shoppingCart.replace("Tea", "Green Tea");

3. const countries = [ 'Albania', 'Bolivia', 'Canada', 'Denmark', 'Ethiopia', 'Finland', 'Germany',
   'Hungary', 'Ireland', 'Japan', 'Kenya'];
   If(countries.includes("Ethiopia")){
       Console.log("ETHIOPIA");
   }

```

```

    } else{
        Countries.push("Ethiopia"); }
4. const webTechs = [ 'HTML', 'CSS', 'JavaScript', 'React', 'Redux', 'Node', 'MongoDB'];
   if(webTechs.includes("Saas")){
       Console.log("Saas is a CSS preprocessor");
   } else{
       webTechs.push("Saas");
   }

5. const frontEnd = ['HTML', 'CSS', 'JS', 'React', 'Redux'];
   const backEnd = ['Node', 'Express', 'MongoDB'];
   const fullStack = frontEnd + backEnd;
   console.log(fullStack);

```

### Level: 03

```

1. const ages = [19, 22, 19, 24, 20, 25, 26, 24, 25, 24];

   var newArr = ages.sort();
   var min = newArr[0];
   var max = newArr[newArr.length - 1];

   var avg = 0;
   for(var i = 0; i < newArr.length; i++){
       avg = avg + newArr[i];
   }
   Console.log(avg/newArr.length);

   Var range = arr[0] - arr[newArr.length - 1];

2. const ages = [19, 22, 19, 24, 20, 25, 26, 24, 25, 24];
   var arr1 = [];
   var arr2 = [];
   if(ages.length % 2 == 0){
       arr1 = ages.slice(0, ages.length/2);
       arr2 = ages.slice(ages.length/2 , ages.length);
   } else{
       arr1 = ages.slice(0, ages.length/2 + 1);
       arr2 = ages.slice(ages.length/2 + 1 , ages.length);
   }

```