ES6+ Practice Question Set 4

Instructions: Avoid usage of in-built methods in javaScript. You can make use of basic methods such as .length, toLowerCase(), toUpperCase(), push() if needed. Make use of for-loops and if-else statements wherever needed.

1. Write an ES6 function that accepts an array of integers and returns the maximum element in the array. Avoid using in-built methods.

```
// Your ES6 code here

let array = [4, 78, 8, 3, 6, 0, 12, 34]
console.log(getMaxElement(array)) // 78
```

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2. Write an ES6 function that takes an array of numbers and returns the average of all the numbers. Avoid using in-built methods.

```
// Your ES6 code here

console.log(calculateAverage([1, 2, 3, 4, 5])) // 3
```

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3. write an ES6 function that takes an array of numbers and converts even numbers to odd numbers by adding 1 to that number.

```
// Your ES6 code here

var numArr = [1, 2, 3, 4, 5, 6, 7, 8, 9]
console.log(convertEvenToOdd(numArr))
// [1, 3, 3, 5, 5, 7, 7, 9, 9]
```

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4. write an ES6 function that takes an array of words and returns an array with all its elements whose length is greater than 5.

```
// Your ES6 code here

var words = ['eat', 'sleep', 'code', 'repeat', 'neog', 'community']
console.log(filterWords(words)) // ["repeat", "community"]
```

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5. Write an ES6 function that takes an array of strings and returns a new array with each string capitalized.

```
// Your ES6 code here

console.log(capitalizeWords(['eat', 'sleep', 'code', 'repeat']))
// ["EAT", "SLEEP", "CODE", "REPEAT"]
```

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6. Write an ES6 function that takes an array of objects and a property name and returns a new array with only the values of that property. Avoid using in-built methods.

```
// Your ES6 code here

console.log(
  getValues(
```

```
    [
      { name: 'John', age: 21 },
      { name: 'Mary', age: 22 },
      { name: 'Peter', age: 23 },
    ],
    'name',
  ),
) // ["John", "Mary", "Peter"]
```

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7. Write an ES6 function that takes the users' details and returns the data with team ID. Avoid using in-built methods.

```
// Your ES6 code here

const userData = { firstName: 'John', lastName: 'Dee' }
console.log(podAndTeamAllocation(userData))
// {firstName: 'John', lastName: 'Dee', teamId: 667543}
```

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8. Write an ES6 function which checks if a student already has a team. If team is not given then add them to team “A” and return the object else do nothing and return the same object. Avoid using in-built methods.

```
// Your ES6 code here

console.log(checkForTeam({ firstName: 'Penn', lastName: 'Ma' }))
// {firstName: 'Penn', lastName: 'Ma', team: A}

console.log(checkForTeam({ firstName: 'John', lastName: 'Dee', team: B }))
// {firstName: 'John', lastName: 'Dee', team: B}

console.log(checkForTeam({ firstName: 'Priya', lastName: 'Raj' }))
// {firstName: 'Priya', lastName: 'Raj', team: A}
```

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9. Destructure the following code to get the desired outputs. Avoid using in-built methods.

```
const book = {
  title: 'JavaScript: The Definitive Guide',
  authors: [
    { name: 'David Flanagan', age: 49 },
    { name: 'Yukihiro Matsumoto', age: 57 },
  ],
  publisher: { name: "O'Reilly Media", location: 'CA' },
}

// Your ES6 code here

console.log(title) // JavaScript: The Definitive Guide
console.log(author1) // David Flanagan
console.log(author2) // Yukihiro Matsumoto
console.log(publisherName) // O'Reilly Media
```

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10. Write an ES6 function that takes an array of objects and returns the sum of all ages.

```
// Your ES6 code here

var array = [
  {
    name: 'Jay',
```

```
    age: 60,
  },
  {
    name: 'Gloria',
    age: 36,
  },
  {
    name: 'Manny',
    age: 16,
  },
  {
    name: 'Joe',
    age: 9,
  },
]

console.log(sumOfAges(array)) // 121
```

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Well Done! You have completed all the practice sets for ES6.