

ES6+ Practice Question Set 2

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. Create an object person with two properties, "name" and "age" and then updates the "age" property to a new value. Initial age should be 30.

// Your code here

```
console.log(person.age) // Output: 35
```

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2. Write a function that takes an object car and returns true if the car is a sports car (i.e. has a horsepower property greater than or equal to 300)

//Your ES6 code here

```
const car1 = { make: 'Porsche', model: '911', horsepower: 450 }
const car2 = { make: 'Toyota', model: 'Camry', horsepower: 200 }
console.log(isSportsCar(car1)) // true
console.log(isSportsCar(car2)) // false
```

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3. Write a function that takes an object person and a number num as arguments and returns true if the person's age plus num is greater than 21. Otherwise, it should return false.

// Your ES6 code here

```
const person1 = { name: 'Ajay', age: 20 }
console.log(isEligible(person1, 1)) // false
console.log(isEligible(person1, 2)) // true
```

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4. Write a function that takes an object blog and returns true if the blog has more than 1000 views (i.e. has a views property greater than 1000)

// Your ES6 code here

```
const blog1 = {
  title: 'How to Learn JavaScript',
  author: 'John Doe',
  views: 1430,
}
const blog2 = {
  title: '10 Reasons to Start a Blog',
  author: 'Jane Smith',
  views: 500,
}
console.log(getViews(blog1)) // true
console.log(getViews(blog2)) // false
```

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5. Swap the values of two variables using array destructuring.

```
let a = 1
let b = 2
```

// Your ES6 Code here

```
console.log(a) // 2
console.log(b) // 1
```

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6. Convert this function into ES6 with least amount of characters.

```
function add(a = 30, b = 0) {
  return a + b
}

console.log(add(2, 3))
```

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7. Write an ES6 function combineObjects with least amount of characters which merges two objects into one.

// Your ES6 function here

```
const obj1 = { a: 1, b: 2 }
const obj2 = { c: 3, d: 4 }
const combinedObj = combineObjects(obj1, obj2)
console.log(combinedObj)
// Expected Output: {a: 1, b: 2, c: 3, d: 4}
```

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8. Convert the function getData, into an ES6 function with last amount of characters.

Hint: Destructuring

```
function getData(person) {
  const name = person.name
  const address = person.address.city
  console.log(name) // John Doe
  console.log(address) // New York
}

const person = {
  name: 'John Doe',
  address: {
    city: 'New York',
    state: 'NY',
  },
}
getData(person)
```

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9. Write a function that takes a string as input and returns the string in all uppercase letters.

// Youe ES6 code here

```
console.log(stringToUpperCase('hello')) // "HELLO"
```

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10. Write a function that takes two strings as input and concatenates them together.

// Your ES6 code here

```
console.log(concatenateStrings('hello', 'world')) // "heLLoworLd"
```

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11. Write a function that takes an array and returns the last element in the array.

// Your ES6 code here

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

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12. Write a function that takes an array and returns the first element of the array.

// Your ES6 code here

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

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13. Write a function that takes an array and a number and returns the sum of first element and the number.

// Your ES6 code here

```
console.log(sumFirstElement([1, 2, 3], 5)) // 6
```

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14. Write a function that takes an array and returns the sum of first and last element.

// Your ES6 code here

```
console.log(sumFirstAndLast([1, 2, 3, 4, 8])) // 9
```

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15. Write a function that takes an object representing a person's information (name, age, occupation) and returns a template literal that includes the person's name and age in a sentence.

// Your ES6 code here

```
const person1 = { name: 'John', age: 25, occupation: 'Software Engineer' }
const person2 = { name: 'Jane', age: 45, occupation: 'Data Analyst' }
console.log(personInfo(person1)) // Expected output: "John is 25 years old."
console.log(personInfo(person2)) // Expected output: "Jane is 45 years old."
```