ES6+ Practice Question Set 1

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 a function that takes a user's age and determines if they are old enough to vote (age 18 or older).

```
// Your ES6 code here

console.log(isEligibleToVote(20)) // Eligible to vote
console.log(isEligibleToVote(18)) // Eligible to vote
console.log(isEligibleToVote(17)) // Not eligible to vote
```

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2. Write a function that takes two numbers as input and determines which one is greater.

```
// Your ES6 code here

console.log(isGreater(2, 5)) // 5 is greater than 2
console.log(isGreater(10, 5)) // 10 is greater than 5
```

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3. Write a function that takes a number as input and determines if it is positive or negative.

```
// Your ES6 code here

console.log(checkNum(9)) // Positive Number
console.log(checkNum(-8)) // Negative Number
console.log(checkNum(22)) // Positive Number
```

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4. Write a function that takes a number as input and determines if it is even or odd.

```
// Your ES6 code here

console.log(isEvenOdd(5)) // Odd Number
console.log(isEvenOdd(8)) // Even Number
console.log(isEvenOdd(10)) // Even Number
```

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5. Write a function that takes a string as input and determines if it contains the letter 'a' or ‘A’.

```
// Your ES6 code here

console.log(checkForAlphabetA('Tanay')) // Includes a
console.log(checkForAlphabetA('Jeep')) // Does not include a
console.log(checkForAlphabetA('Jane')) // Includes a
```

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6. Write a function that takes a string as input and determines if it is longer than 5 characters.

```
// Your ES6 code here

console.log(checkLength('Programming')) // more than 5 characters
console.log(checkLength('Jeep')) // less than 5 characters
```

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7. Write a function that takes a number as input and determines if it is between 1 and 10.

```
// Your ES6 Code here

console.log(isBetweenOneAndTen(5)) // true
console.log(isBetweenOneAndTen(11)) // false
```

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8. Write a function that takes a string as input and determines if it contains the word "hello".

```
// Your ES6 code here

console.log(isHelloPresent('Hello World')) // true
console.log(isHelloPresent('World')) // false
```

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9. Write a function that takes a number as input and determines if it is a multiple of 3.

```
// Your ES6 code here

console.log(isMultipleOfThree(5)) // false
console.log(isMultipleOfThree(9)) // true
```

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10. Write a function which takes in a number as input and returns it after multiplying by 10.

```
// Your ES6 code here

console.log(multiplyByTen(20)) // 200
console.log(multiplyByTen(40)) // 400
```

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11. Console individual values of the product object using object destructuring.

```
const product = {
  title: 'iPhone',
  price: 5999,
  description: 'The iPhone is a smartphone developed by Apple',
}

// Your ES6 code here

console.log(title) // iPhone
console.log(price) // 5999
console.log(description) // The iPhone is a smartphone developed by Apple
```

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12. Create an object book with properties title, author, and pages. Create a function getBookDetails that takes a book object as a parameter and returns if the book has more than 100 pages.

```
// Your ES6 code here

console.log(getBookDetails(book)) // logs 'true' if the pages are above 100
console.log(getBookDetails(book)) // logs 'false' if the pages are 100 or below
```

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13. Create a function changeOccupation that takes an object person and a string newOccupation as parameters, and changes the occupation property of the person object to the newOccupation. Log the person object to the console before and after calling the function.

```
// Your ES6 code here

console.log(person) // logs { name: 'Amit', age: 25, occupation: 'Software Engineer' } to
changeOccupation(person, 'Product Manager')
console.log(person) // logs { name: 'Amit', age: 25, occupation: 'Product Manager' } to t
```

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14. Given an array numbers containing the numbers 1, 2, and 3. Use array destructuring to log each number to the console.

```
const numbers = [1, 2, 3]
// Your ES6 code here

console.log(a) // logs 1 to the console
console.log(b) // logs 2 to the console
console.log(c) // logs 3 to the console
```

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15. Convert the given function into ES6 with least amount of characters.

```
function defaultParamsFunc(a, b, c) {
  if (c === undefined) {
    c = 4
  }
  return a * b * c
}
console.log(defaultParamsFunc(3, 1)) // 12
console.log(defaultParamsFunc(3, 10)) // 120
```