JS assignment questions

1. Write a function that would allow you to do this.

```
var addSix = createBase(6);
addSix(10); // returns 16
addSix(21); // returns 27
```

```
function createBase(n){
  return x => x + 6;
}

var addSix = createBase(6);
console.log(addSix(10));
console.log(addSix(21));
```

2. Write a function (doLaundry) that would give the following output.
   Expected Output: wash dry fold done!

```
function wash(callback) {
  setTimeout(function() {
    console.log('wash');
    callback();
  }, 3000);
}

function dry(callback) {
  setTimeout(function() {
    console.log('dry');
    callback();
  }, 2000);
}

function fold(callback) {
  setTimeout(function() {
    console.log('fold');
    callback();
  }, 1000);
}
```

```
doLaundry([wash, dry, fold]);
```

```
function doLaundry(a){
  if(a.length === 0) {
     console.log('done');
     return;
  }
  f = a.shift();

  f(() => {
     doLaundry(a)
     });
}
```

3. Create an object "updatedData" using the "originalData" provided below by changing the name and the city part only, and print both in the console. Note: The originalData must not be changed.

```
// Example usage:
const originalData = {
  id: 1,
  name: 'John',
  age: 30,
  address: {
    city: 'New York',
    street: '123 Main St',
    zip: '10001',
  },
};

// Update the 'name' and 'city' property in the 'address' object
const updatedData = {
 };

console.log(originalData);
console.log(updatedData);
```

```
const updatedData = { ...originalData, name:'New Guy'};
updatedData.address = {...(originalData.address), city:'New City' }
```

4. Predict the output of the following.
   Modify the print function to log 1 after 1 second, 2 after 2 second etc. into the console.

```
function print() {
    for (var i = 1; i <= 5; i++) {
        setTimeout(() => console.log(i), i * 1000)
    }
}


print()
```

Find an alternative approach to fix the above solution.

6 5 times

```
function print() {
    var i = 1;
    setInterval(()=>{
    console.log(i);
    i += 1;
    }, i * 1000);
}
```

5. Design an HTML page showing the time in a heading (use Date.now()), and a button 'update' which updates the time when clicked.
https://github.com/niranjanneeru/KV-Assignments/tree/main/JS/Assignment%202%20-%20Q5

6. Design an HTML page with two black square divs center aligned on the page. On hovering the first square div change its color using js, and for the second div change its color using css.
https://github.com/niranjanneeru/KV-Assignments/tree/main/JS/Assignment%202%20-%20Q6

7. Create an HTML input field of type "password" and a checkbox. When the checkbox is checked, show the password as plain text. When the checkbox is

unchecked, hide the password.

```html
<input type="password" id="passwordInput" placeholder="Enter password">
<label for="showPassword">Show Password</label>
<input type="checkbox" id="showPassword">

<script>
// write the function here
</script>
```

https://github.com/niranjanneeru/KV-Assignments/tree/main/JS/Assignment%202 02%20-%20Q7