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Q1: Write an HTML code for the below form. Let user enter a value in this form, and then convert the value from Fahrenheit to Celsius using **JS function**.

Temperature	Converter
Type a value in the F	ahrenheit field to convert the value to Celsius
Fahrenheit Fahrenhei	Convert
Celcius:	

Example

Fahrenheit 3

Celcius: -16.111111111111111



Code

```
JS FtoC.is U
                                                                         ■ FtoC.html U
                                                                                                 FtoC.css U X Js FtoC.js U
Assignment5 > 5 FtoC.html > ...
     <!DOCTYPE html>
                                                                          Assignment5 > 📠 FtoC.css > 😭 form
     <html lang="en">
                                                                                   form {
        <meta charset="UTF-8" />
                                                                                      width: fit-content;
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>Temprature Converter</title>
                                                                             3
                                                                                      padding: 0 2rem;
        <link rel="stylesheet" href="FtoC.css" />
                                                                                      border: 1px solid □black;
       <body>
        <form action="#">
          <h1>Temprature Converter</h1>
                                                                                   button {
           Type a value in the Fahrenheit field to convert the value to Celcius:
                                                                                      font-size: 30px;
          <label for="f_input"> Fahrenheit </label>
                                                                                      background: transparent;
           type="number"
                                                                                      border: 1px solid □black;
            step="0.001"
                                                                                      border-radius: 5px;
            id="f input"
                                                                            11
           placeholder="Fahrenheit (°F)"
                                                                            12
                                                                                      color: \square rgb(0, 225, 255);
          <button onclick="convertHandler(event)">Convert</button>
                                                                            13
                                                                                      cursor: pointer;
          Celcius: <span id="c_result">-</span> &deg;C
       <script src="FtoC.js"></script>
```

```
FtoC.html U

StoC.css U

FtoC.js U X

Assignment5 > Js FtoC.js > © convertHandler

function FtoCConverter(f){

return (f - 32) * 5/9; // Calculation formula

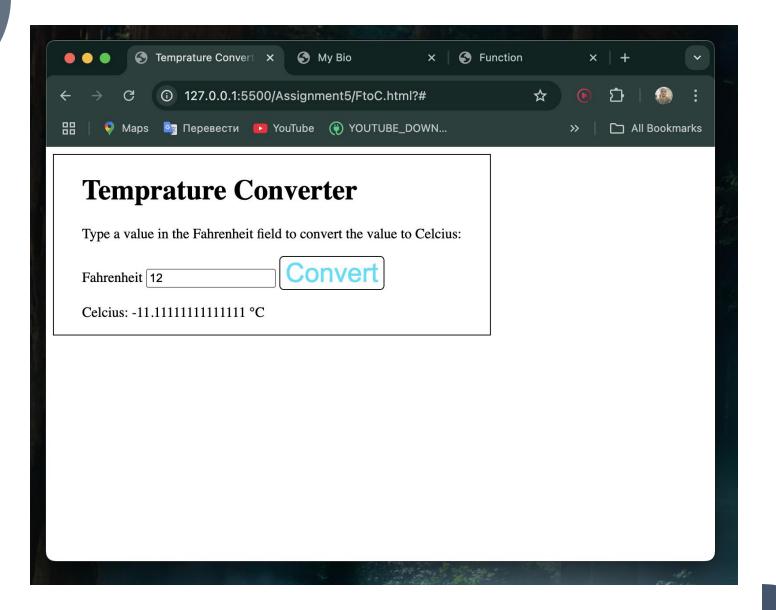
}

// Handler function

function convertHandler(e)

const f_input = document.getElementById("f_input").value // Getting input value

document.getElementById("c_result").innerText = FtoCConverter(f_input) // Putting Calculation result
```

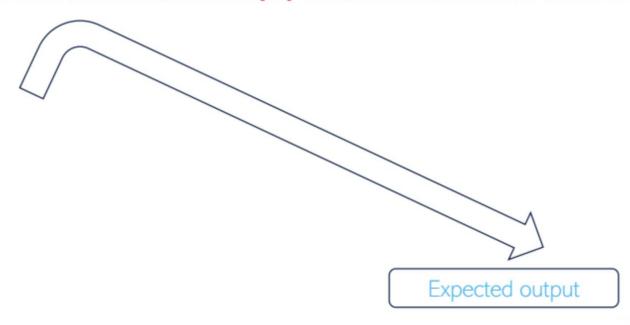


Output

Q2: Create a JS object with your own information and then display the information in HTML Tables as shown below.

Object creation

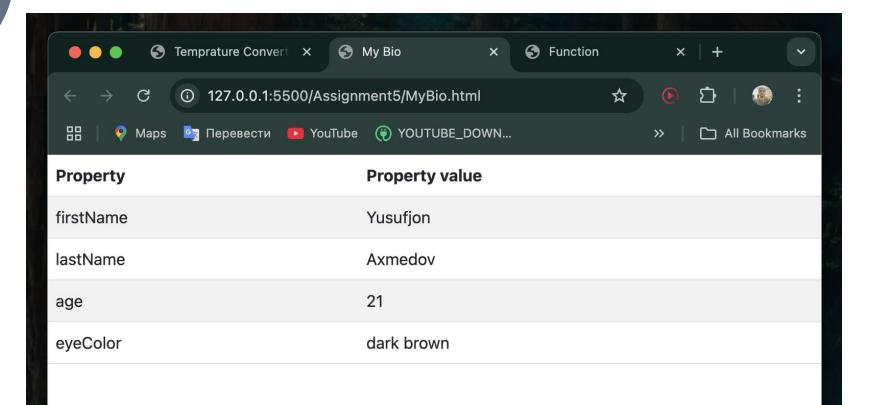
```
firstName: "John",
lastName: "John",
id : 5566
};
```



Property	Property Value
firstName	John
lastName	Doe
age	50
eyeColor	blue

Code

```
■ MyBio.html U X
Assignment5 > ⑤ MyBio.html > ⊘ html > ⊘ script
      <!DOCTYPE html>
      <html lang="en">
       <head>
         <meta charset="UTF-8" />
         <meta name="viewport" content="width=device-width, initial-scale=1.0" />
         <title>My Bio</title>
         <link rel="stylesheet" href="../Assignment3/bootstrap.min.css" />
       </head>
       <body>
         <thead>
            Property
              Property value
            </thead>
          </body>
       <script>
 21
         const person = {
           firstName: "Yusufjon",
           lastName: "Axmedov",
          age: 21,
          eyeColor: "dark brown",
         };
 27
         let tbody = document.getElementById("bio_data");
         for (const [key, value] of Object.entries(person)) {
           tbody.innerHTML += `${key}${value}`;
           console.log(`${key}${value}`);
       </script>
      </html>
```

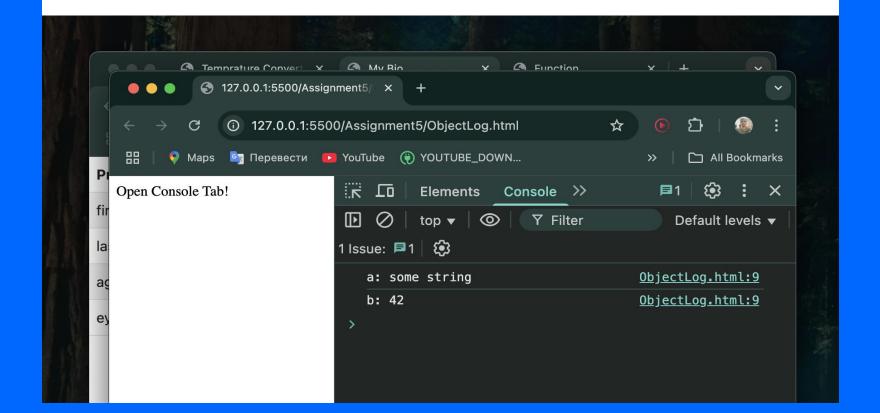


Output

Q3: Run the code below on your PCs and report the output.

```
const object1 = {
  a: "some string",
  b: 42,
};

for (const [key, value] of Object.entries(object1)) {
  console.log(`${key}: ${value}`);
}
```



Output report: The properties of object1 variable are printed into the Console a browser

Q4: Why are JS functions used in web development? Please write the answer with 2~3 sentences only.

- JS functions help run specific tasks and make code reusable.
- They keep the code clean and easy to manage.
- Functions also let websites respond to user actions (click of a button, reloading page...).



Q5: Write JS function to solve the below equation and display the answer in web page as shown below.

$$Z = \frac{3x + 2y}{5b}$$

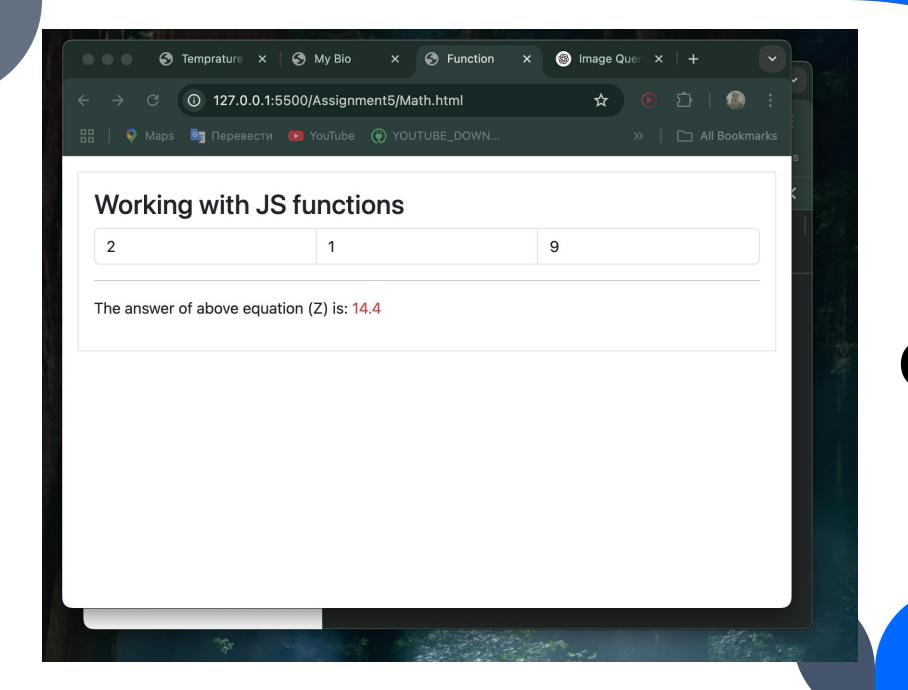
The values of variables are,

$$x = 2, y = 1, b = 9$$

++ G	× +	0.1
Working	g with JS functions	
The answe	r of above equation is:	



```
39
                                                                                   >
                   ■ Math.html U X
ObjectLog.html U
                                                                                      The answer of above equation (Z) is:
Assignment5 > ■ Math.html > ♦ html > ♦ body > ♦ form.border.m-3.p-3 > ♦ div.input-
      <!DOCTYPE html>
                                                                  41
                                                                                      <span class="text-danger" id="result"></span>
      <html lang="en">
        <head>
                                                                  42
                                                                                   <meta charset="UTF-8" />
         <meta name="viewport" content="width=device-width, initial-scale=1</pre>
                                                                                </form>
         <title>Function</title>
         <link rel="stylesheet" href="../Assignment3/bootstrap.min.css" />
                                                                  44
                                                                             </body>
        <body>
                                                                  45
                                                                             <script>
         <form action="#" class="border m-3 p-3">
                                                                  46
                                                                                const _math_functions = {
           <h2>Working with JS functions</h2>
           <div class="input-group">
                                                                  47
                                                                                   x: 0,
              type="number"
                                                                  48
                                                                                   y: 0,
              id="x"
                                                                  49
                                                                                   b: 0,
              oninput=" math functions.inputHandler(event)"
              class="form-control"
                                                                  50
                                                                                   z equation: function () {
              placeholder="Enter X's value"
                                                                                      document.getElementById("result").innerText =
                                                                  51
              type="number"
                                                                                         ((3 * this.x + 2 * this.y) / 5) * this.b;
                                                                  52
              id="v"
              step="any"
                                                                   53
              oninput="_math_functions.inputHandler(event)"
              class="form-control"
                                                                  54
                                                                                   inputHandler: function (event) {
              placeholder="Enter Y's value"
                                                                  55
                                                                                      this[event.target.id] = parseFloat(event.target.value) || 0;
 28
                                                                                      this.z_equation();
                                                                  56
              type="number"
              id="b"
                                                                  57
                                                                                   },
              step="any"
              oninput="_math_functions.inputHandler(event)"
                                                                  58
                                                                                };
              class="form-control"
              placeholder="Enter B's value"
                                                                  59
                                                                             </script>
                                                                  60
                                                                          </html>
                                                                  61
             The answer of above equation (Z) is:
            <span class="text-danger" id="result"></span>
         </form>
        </body>
```



Output