

# Java Script Assignments

DOM.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <title>Category Highlighter</title>
  <style>
    .category {
      cursor: pointer;
      padding: 5px;
    }
  </style>
</head>
<body>

  <div class="sidebar">
    <h3>Categories</h3>
    <ul>
      <li class="category">Technology</li>
      <li class="category">Health</li>
      <li class="category">Travel</li>
      <li class="category">Food</li>
    </ul>
  </div>
```

```
<script src="Index.js"></script>
</body>
</html>
```

Form.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <title>Contact Form</title>
</head>
<body>

  <form id="contactForm">
    <label for="nameInput">Name:</label>
    <input type="text" id="nameInput" name="name" required
  />
    <button type="submit">Submit</button>
  </form>

  <script src="Index.js">

</script>

</body>
</html>
```

Index.js

```
import { toCelsius, toFahrenheit } from './utils.js'  
//ASSIGNMENT 1
```

```
let bookTitle="Hello_world"  
let price=300  
let quantity=2  
let taxrate=2
```

```
subTotal=price*quantity  
console.log(`You bought ${quantity} copies of "${bookTitle}`)
```

```
console.log(`Subtotal: ${subTotal}`)  
tax=subTotal*(taxrate/100);  
console.log(`Tax: ${tax}`)
```

```
total=subTotal+tax;  
console.log(`Total: ${total}`)
```

```
//ASSIGNMENT 2
```

```
playlist=[{ title: "Song 1", artist: "Artist A" },  
  { title: "Song 2", artist: "Artist B" },  
  { title: "Song 3", artist: "Artist C" }  
];
```

```
playlist.forEach((song,index)=>{  
  console.log( `${index+1} ${song.title} by ${song.artist}`)  
})
```

//Assignment 3

```
function calculateTripDays(startDate, endDate){  
  const start = new Date(startDate);  
  const end = new Date(endDate);
```

```
  const diffMs = end - start;
```

```
  const diffDays = diffMs / (1000 * 60 * 60 * 24);
```

```
  return Math.round(diffDays);
```

```
}
```

```
const days = calculateTripDays('2025-07-01', '2025-07-10');  
console.log(`Trip duration: ${days} days`);
```

//Assignment 4

```
let age=prompt("enter the age");
age=Number(age);
if(age>=18){
    console.log("Access to all movies")
}else if(age>=13){
    console.log("Access to PG-13 and below")
}else{
    console.log("Access to kids' movies only")
}
```

```
//Assignment 5
cart =[10,20,30,40,50]
let total=0;
for(let i=0;i<cart.length;i++){
    total+=cart[i];
}
console.log(`cart Total: ${total}`)
```

```
//Assignment 6
const currentCategory = "Travel";
```

```
const categories = document.querySelectorAll('.category');
```

```
categories.forEach(el => {
    el.style.fontWeight = 'normal';
```

```
// Check if element text matches currentCategory
```

```
if (el.textContent.trim() === currentCategory) {  
  el.style.fontWeight = 'bold';  
  el.style.color="blue" // Highlight it  
}  
});
```

//Assignment 7

```
const form = document.getElementById('contactForm');  
const nameInput = document.getElementById('nameInput');
```

```
form.addEventListener('submit', function(event) {  
  event.preventDefault();
```

```
  const name = nameInput.value.trim();
```

```
  if (name) {  
    alert(`Thank you, ${name}, for contacting us!`);  
  } else {  
    alert('Please enter your name.');
```

//Assignment 8

```
const button = document.getElementById('getJoke');  
const container =  
document.getElementById('jokeContainer');
```

```
button.addEventListener('click', () => {  
  container.textContent = 'Loading...'; // show loading  
message
```

```
  fetch('https://api.chucknorris.io/jokes/random')  
    .then(response => {  
      if (!response.ok) {  
        throw new Error('Network response was not ok');  
      }  
      return response.json();  
    })  
    .then(data => {  
      container.textContent = data.value;  
    })  
    .catch(error => {  
      container.textContent = 'Failed to fetch joke. Please try  
again.';  
      console.error('Error fetching joke:', error);  
    });  
});
```

// Assignment 9

```
function Book(title, author) {  
  this.title = title;  
  this.author = author;  
  
}
```

```
Book.prototype.getSummary = function() {  
  
  return `${this.title} by ${this.author}`;  
  
};  
const book1 = new Book("The Great Gatsby", "F. Scott  
Fitzgerald");  
const book2 = new Book("1984", "George Orwell");  
const book3=new Book("hp","idk")  
console.log(book3.getSummary())
```

//Assignment 10

```
console.log(toCelsius(100));
```

```
console.log(toFahrenheit(0));
```

Joke.html

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8" />  
  <title>Joke Fetcher</title>  
</head>  
<body>
```



```
<button id="getJoke">Get a Joke</button>
<div id="jokeContainer" style="margin-top:20px; font-
weight:bold;"></div>

<script src="Index.js">

</script>

</body>
</html>
```

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-
scale=1" />
  <title>Age Check</title>
</head>
<body>
  <h1>Movie Access Checker</h1>

  <script src="index.js"></script>
</body>
```

</html>

Utils.js

```
export function toCelsius(f) {
```

```
  return ((f - 32) * 5) / 9;
```

```
}
```

```
export function toFahrenheit(c) {
```

```
  return (c * 9) / 5 + 32;
```

```
}
```