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TP Modul 12

1. Source Code :

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>TP Modul 12 - Cari Tanda Bilangan</title>
  <link href="https://cdn.jsdelivr.net/npm/tailwindcss@2.2.19/dist/tailwind.min.css"
rel="stylesheet">
</head>
<body class="bg-gray-100 flex items-center justify-center h-screen">
  <div class="bg-white p-6 rounded-lg shadow-lg w-1/3">
    <h2 class="text-xl font-semibold mb-4">Cari Tanda Bilangan</h2>
    <input type="number" id="inputNumber" class="border p-2 w-full mb-4"
placeholder="Masukkan angka">
    <button onclick="checkSign()" class="bg-blue-500 text-white px-4 py-2
rounded">Check</button>
    <p id="output" class="mt-4 text-lg font-medium"></p>
  </div>

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

Script.js

```
function CariTandaBilangan(a) {
  if (a < 0) return "Negatif";
  if (a > 0) return "Positif";
  return "Nol";
}

function checkSign() {
  const inputNumber = document.getElementById("inputNumber").value;
  const output = document.getElementById("output");
```

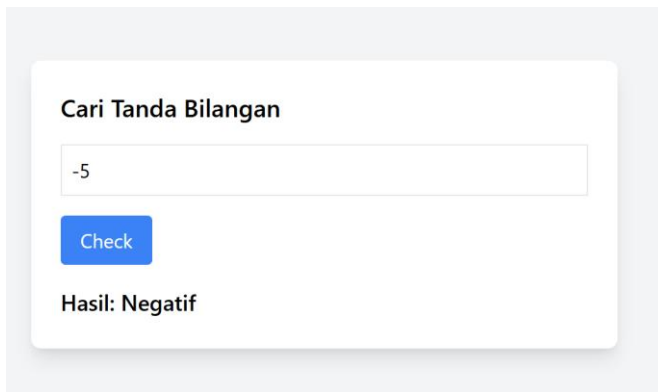
```
const result = CariTandaBilangan(parseInt(inputNumber));  
output.textContent = `Hasil: ${result}`;  
}
```

unitTest.js

```
function testCariTandaBilangan() {  
  console.assert(CariTandaBilangan(-5) === "Negatif", "Test Case 1 Failed");  
  console.assert(CariTandaBilangan(0) === "Nol", "Test Case 2 Failed");  
  console.assert(CariTandaBilangan(7) === "Positif", "Test Case 3 Failed");  
  
  console.log("All test cases passed.");  
}  
  
testCariTandaBilangan();
```

2. Output :

The image displays two identical screenshots of a web application interface. Each screenshot shows a white card with a light gray border on a light gray background. The card has a title 'Cari Tanda Bilangan' in bold. Below the title is a text input field containing the number '7'. Under the input field is a blue button with the text 'Check'. At the bottom of the card, the text 'Hasil: Positif' is displayed.



Cari Tanda Bilangan

Check

Hasil: Negatif

3. Penjelasan :

index.html berfungsi sebagai tampilan utama GUI sederhana yang terdiri dari satu textbox, satu button, dan satu label output.

script.js berisi implementasi fungsi `CariTandaBilangan()` dan event handler `checkSign()`. Fungsi `CariTandaBilangan(a)` menerima input berupa angka dan mengembalikan string "Negatif", "Nol", atau "Positif" sesuai aturan. Fungsi `checkSign()` mengambil input dari textbox, memanggil `CariTandaBilangan()`, dan menampilkan hasilnya di label output.

unitTest.js berfungsi untuk menguji fungsi `CariTandaBilangan()` menggunakan 3 test case