WADS LAB [30 Jan 2025]

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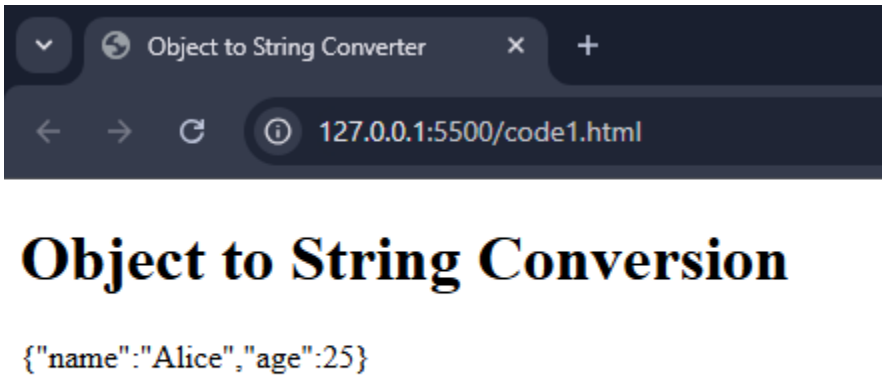
1. Js program to convert objects to strings



CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Object to String Converter</title>
</head>
<body>
    <h1>Object to String Conversion</h1>
    <p id="result"></p>

    <script>
        let obj = { name: "Alice", age: 25 };
        let str = JSON.stringify(obj);

        document.getElementById("result").innerText = str;
```

```
    </script>
</body>
</html>
```

2. Converting js object to JSON

CODE:

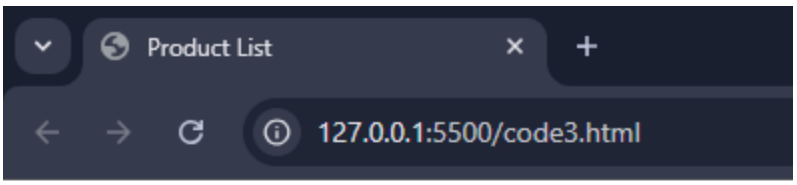
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Object to JSON Converter</title>
</head>
<body>
    <h1>Object to JSON Conversion</h1>
    <p id="json-result"></p>

    <script>
        let obj = { name: "Bob", age: 30 };
        let json = JSON.stringify(obj);

        // Display the JSON result in the HTML
        document.getElementById("json-result").innerText = json;
```

```
    </script>
</body>
</html>
```

3. Fetch product details



Product Details

Product 1
Price: $10.99

Product 2
Price: $19.99

Product 3
Price: $29.99

CODE:

[products.json]

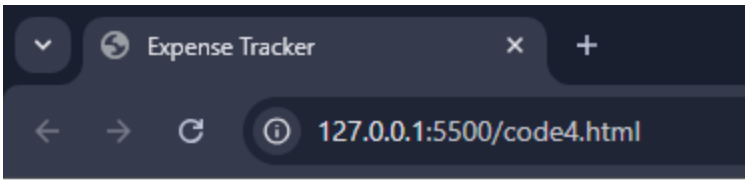
```
[
    { "id": 1, "name": "Product 1", "price": 10.99 },
    { "id": 2, "name": "Product 2", "price": 19.99 },
    { "id": 3, "name": "Product 3", "price": 29.99 }
```

[code3.html]

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Product List</title>
</head>
<body>
    <h1>Product Details</h1>
    <div id="product-list"></div>

    <script>
        fetch('products.json')
            .then(response => response.json())
            .then(products => {
                let productList = document.getElementById('product-list');
                products.forEach(product => {
                    let productItem = document.createElement('div');
                    productItem.innerHTML =
`<strong>${product.name}</strong><br>Price: $${product.price}<br><br>`;
                    productList.appendChild(productItem);
                });
            })
            .catch(error => console.error('Error fetching product data:',
error));
    </script>
</body>
</html>
```

4. Record Expenses



Expenses List

Groceries: $50.75
Electricity Bill: $120.30
Internet: $40.99
Movie Tickets: $25.00

Total Expenses: $237.04

CODE:

[expenses.json]

```
[
    { "item": "Groceries", "amount": 50.75 },
    { "item": "Electricity Bill", "amount": 120.30 },
    { "item": "Internet", "amount": 40.99 },
    { "item": "Movie Tickets", "amount": 25.00 }
]
```

[code4.html]

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Expense Tracker</title>
</head>
<body>
    <h1>Expenses List</h1>
    <div id="expense-list"></div>
    <h2>Total Expenses: $<span id="total-expenses">0.00</span></h2>

    <script>
        fetch('expenses.json')
            .then(response => response.json())
            .then(expenses => {
                let expenseList = document.getElementById('expense-list');
                let total = 0;

                expenses.forEach(expense => {
                    let expenseItem = document.createElement('div');
                    expenseItem.innerHTML = `${expense.item}:
$${expense.amount.toFixed(2)}`;
                    expenseList.appendChild(expenseItem);
                    total += expense.amount;
                });

                document.getElementById('total-expenses').innerText =
total.toFixed(2);
            })
            .catch(error => console.error('Error fetching expenses data:',
error));
    </script>
</body>
</html>
```