DSA In JavaScript

WITH SHERYIANS CODING SCHOOL

JAVASCRIPT

DO-WHILE

IN ACTION

A fun breakdown of small interactive programs!

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What is a Do-While Loop?

A loop that runs at least once, then repeats as long as the condition is true

Syntax

```
do {
    // code to execute
} while (condition);
```

1. Repeat Hello

```
let userInput;
do {
    console.log("Hello World");
    userInput = prompt("Do you want to continue? yes/no").toLowerCase();
} while (userInput === 'yes');
```

Keeps saying Hello until you say no! 😆

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2. Guess The Number

A simple number guessing game.

```javascript
let comp = Math.floor(Math.random()*100)+1;

let userInput;
do{
    userInput = Number(prompt("Guess the number between 1 to 100"));
    if(isNaN(userInput) || userInput<0 || userInput>100){
        console.log("Please enter a valid number!!");
        continue;
    }


    if(userInput>comp){
        console.log("too high, try again!!!");
    }
    else if(userInput<comp){
        console.log("too low, try again");
    }
    else{
        console.log(" Congrats 🎉 and number was "+comp);
    }
}while(userInput !== comp);
```

Keeps running until you guess it right! 🔥

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3. Simple Calculator

A simple calculator that keeps running until you say no!

```javascript
let userInput;
do {
    let num1 = Number(prompt("Enter first number"));
    let num2 = Number(prompt("Enter second number"));
    let operator = prompt("Enter operator (+, -, *, /)");

    switch (operator) {
        case '+': console.log("Result: " + (num1 + num2)); break;
        case '-': console.log("Result: " + (num1 - num2)); break;
        case '*': console.log("Result: " + (num1 * num2)); break;
        case '/':
            if (num2 !== 0) console.log("Result: " + (num1 / num2));
            else console.log("Cannot divide by zero!");
            break;
        default:
            console.log("Invalid operator!");
    }
    userInput = prompt("Do you want to continue? yes/no").toLowerCase();
} while (userInput === 'yes');
```

Because why not have a budget-friendly calculator? 😆

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