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Title:
Design a web page using JavaScript Variables

Problem Definition:
Design a web page using JavaScript Variables, Operators, Conditions, Loops, Functions, Events, Classes and Objects

Pre-requisites:
HTML, CSS & JS

Theory:

JavaScript Variables : Variables are containers for storing data (storing data values).

JavaScript Operators : JavaScript operators are used to assign values, compare values, perform arithmetic operations, and more.

JavaScript Conditions : In JavaScript we have the following conditional statements:
Use **if** to specify a block of code to be executed, if a specified condition is true
Use **else** to specify a block of code to be executed, if the same condition is false
Use **else if** to specify a new condition to test, if the first condition is false
Use **switch** to specify many alternative blocks of code to be executed

JavaScript Loops : Loops can execute a block of code a number of times.

JavaScript Functions : A JavaScript function is a block of code designed to perform a particular task. A JavaScript function is executed when "something" invokes it (calls it).

JavaScript Events : HTML events are "things" that happen to HTML elements. When JavaScript is used in HTML pages, JavaScript can "react" to these events.

JavaScript Classes : Use the keyword class to create a class. Always add a method named constructor()

JavaScript Object : In JavaScript, almost "everything" is an object.
- Booleans can be objects (if defined with the new keyword)
- Numbers can be objects (if defined with the new keyword)
- Strings can be objects (if defined with the new keyword)
- Dates are always objects Math are always objects
- Regular expressions are always objects

Procedure:
Create a html page
Create a script which contains the logic of loops , if-else , operators , variables etc..
Display the result in the web page

Program:

```html
<button id="age">Check</button>
<script>
    document.getElementById("age").addEventListener("click", (e) => {
        var age = prompt("Enter your age:", age);   //variable
        if (age < 18)                                      //conditional
statement
        {
            reqage = 18 - age    //operator
            alert("You are not an adult, you can vote after " + reqage
+ " years")
        }
        else alert("You are adult and are eligible for voting")

    })
</script>
```

```
<script>
    var count = 0;

    document.write("<br /><br />Starting Loop<br /><br />");
    while (count < 11) {
        document.write("Current Count : " + count + "<br />");
        count++;
    }
    document.write("<br />Loop stopped!");
</script>
```
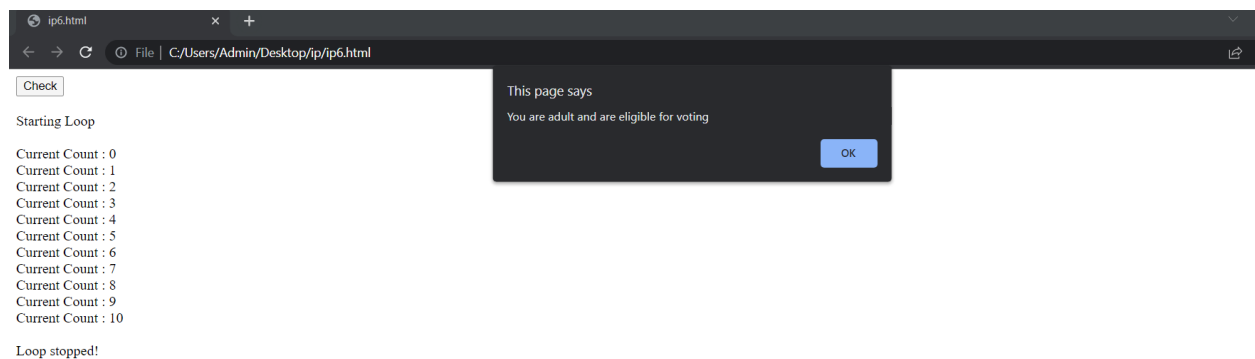
Output:

The loop

Results:
A web page using JavaScript Variables is created and displayed successfully.

Reference:
https://www.w3schools.com/js/js_variables.asp
https://www.w3schools.com/jsref/jsref_operators.asp
https://www.w3schools.com/js/js_if_else.asp
https://www.w3schools.com/js/js_functions.asp
https://www.w3schools.com/js/js_events.asp
https://www.javatpoint.com/javascript