**JavaScript: Basic Concepts Lab Work**

1. Where is the correct place to insert a JavaScript in the HTML page?

* Scripts can be placed in the <body>, or in the <head> section of an HTML page, or in both.
* Placing scripts at the bottom of the <body> element improves the display speed, because script interpretation slows down the display.

1. Write JavaScript syntax to change the content of the below HTML element.

<p id="demo">This is a demonstration.</p>

function myFunction2() {

    document.getElementById("question2").innerHTML = "Paragraph changed.";

}

<body>

    <!-- Question-2 -->

    <h1>JavaScript: Basic Concepts Lab Work</h1>

    <p id="question2">This is a demonstration.</p>

    <button type="button" onclick="myFunction2()"> Try it </button>

    <script src="Script.js"></script>

</body>

</html>

1. Create a variable called carName, assign the value Volvo to it.

{

    var carName = "Volvo";

    document.getElementById("question3").innerHTML = carName;

}

    <!-- Question-3 -->

    <p id="question3"></p>

    <script src="xxx.js"></script>

1. Write the correct syntax for referring to an external script called "xxx.js"

    <script src="xxx.js"></script>

1. Write the correct syntax to display “Hello World” in an alert box?

{

    // Question-4

    alert("Hello World!");

}

1. Write the correct syntax to create a function in JavaScript?

**Function functionName () {**

**Statement (“ ”);**

**}**

1. What is the correct syntax for a single-line comment in JavaScript?

**//- single-line comment**

1. Display the sum of 5 + 10 in HTML page, using two variables: x and y.

    <!-- Question-8 -->

    <p id="question8"></p>

{

    let x = 5;

    let y = 10;

    document.getElementById("question8").innerHTML = x+y;

}

1. Create a variable called z, assign x + y to it, and display the result in an alert box.

{

    // Question -9

    let x = 5;

    let y = 10;

    let z = x +y;

    alert(z)

}

1. On one single line, declare three variables with the following names and values

firstName = "John"  
lastName = "Doe"  
age = 35

  <!-- Question -10 -->

    <p id="question10"></p>

{

    const firstName = "John";

    const lastName = "Doe";

    const age = 35;

    document.getElementById("question10").innerHTML = firstName + lastName + age;

}

1. Write JavaScript code to multiply 10 with 5, and alert the result.

{

    // Question - 11

    alert(10\*5);

}

1. Write JavaScript program to divide 10 by 2, and alert the result.

{

    // Question -12

    alert(10/2);

}

1. What is the result of the following expression?

5 + 5 + "5"

**105**

1. Write JavaScript program to alert the **remainder** when 15 is divided by 9.

{

    // Question -14

    alert(15/9);

}

1. What will the following code output?

console.log(2 + "2");

**22**

1. What will the following code snippet output?

console.log("5" - 3);

**2**

1. What will the following code snippet output?

console.log("Hello" + 1 + 2);

**Hello12**

1. Write a JavaScript program to reverse the order of characters in the string.

    <!-- Question -18 -->

    <p id="question18"></p>

{

    function reverseString(str){

        const reversedString =

        str.split("").reduce((acc, char) => char + acc, "");

        console.log(reversedString);

    }

    reverseString("Pest");

}

1. Write a JavaScript function to return the sum of a and b.

 <!-- Question -19 -->

    <p id="question19"></p>

    <button type="button" onclick="myFunction19()"> Try it </button>

function myFunction19() {

    let a = 1;

    let b = 2;

    document.getElementById("question19").innerHTML = a+b;

}

1. Write a JavaScript function that takes an integer minutes and converts it to seconds.

 <!-- Question -20 -->

    <p id="question20"></p>

    <button type="button" onclick="myFunction20()"> Try it </button>

function myFunction20() {

let minutes=prompt("Enter the minutes");

alert(convert(minutes));

function convert(minutes) {

    return (minutes \*60);

}

}

1. Write a function that takes the base and height of a triangle and return its area.

 <!-- Question -21 -->

    <p id="question21"></p>

    <button type="button" onclick="myFunction21()"> Try it </button>

function myFunction21 () {

    let height = prompt ("Enter the Height");

    let base = prompt ("Enter the base");

    let area = height \* base \* 0.5;

    alert(convert(area));

    function convert(area) {

        return  (area);

    }

}

1. Create a function that takes the age in years and returns the age in days.

 <!-- Question -22 -->

    <p id="question22"></p>

    <button type="button" onclick="myFunction22()"> Try it </button>

function myFunction22 () {

    let age = prompt("Enter age in Years");

    alert(convert(age));

    function convert (age) {

        return (age\*365)

    }

}

1. Create a function that takes length and width and finds the perimeter of a rectangle.

<!-- Question -23 -->

    <p id="question23"></p>

    <button type="button" onclick="myFunction23()"> Try it </button>

function myFunction23 () {

    let length = prompt ("Enter Length");

    let width = prompt ("Enter Width");

    let perimeter  = length \* 2 + width \* 2;

    alert (convert(perimeter));

    function convert (perimeter) {

        return (perimeter);

    }

}

1. What will be the output of the following code snippet?

let name = ”Unicom TIC”;

console.log(name.charAt(4));

**O**

1. Write a JavaScript program to reverse each word in the given sentence?

For example “Welcome to this Javascript Program!”

should be become “emocleW ot siht tpircsavaJ !amrgorP”

function reverseWords(sentence) {

    let words = sentence.split(" ");

    for (let i = 0; i < words.length; i++) {

        words[i] = words[i].split("").reverse().join("");

    }

    let reversedSentence = words.join(" ");

    return reversedSentence;

}

let inputSentence = "Welcome to this Javascript Program!";

let reversed = reverseWords(inputSentence);

console.log(reversed);