

Q1. Add Two Numbers Entered by the User

```
<html>
  <head>
    <title>Document</title>
  </head>
  <body>
    <script>
      let num1 = parseInt(prompt("enter first number"));
      let num2 = parseInt(prompt("enter second number"));
      let result = num1 + num2;
      alert(result);
      console.log(result);
    </script>
  </body>
</html>
```

Q2. Change Background Color on Button Click

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
  </head>
```

```
<body>  
    <button onClick="changeColor()">Change Background  
Color</button>  
  
<script>  
    function changeColor() {  
        document.body.style.backgroundColor = "red";  
    }  
</script>  
</body>  
</html>
```

Q3. Write a Program to reverse a string in JavaScript.

```
<html>  
    <head>  
        <title>Document</title>  
    </head>  
    <body>  
        <input type="text" id="str" />  
        <button onclick="reverseString()">Reverse String</button>  
        <p id="result"></p>  
        <script>
```

```
function reverseString() {  
    const input = document.getElementById("str").value;  
    const reversed = input.split("").reverse().join("");  
    document.getElementById("result").innerText = reversed;  
}  
</script>  
</body>  
</html>
```

Q4. Write a Program to check whether a string is a palindrome string.

```
<html>  
<head>  
    <title>Document</title>  
</head>  
<body>  
<script>  
    function isPallindrome() {  
        let str = prompt("enter string to check ");  
        let reverse = str.split("").reverse().join("");  
        if (str == reverse) {  
            alert(str + " is a pallindrome");  
        }  
    }  
</script>
```

```
    } else {  
        alert("given string is not pallindrome");  
    }  
}  
isPallindrome();  
</script>  
</body>  
</html>
```

Q5. Remove the first element from an array in JavaScript?

```
<html lang="en">  
    <head>  
        <title>Document</title>  
    </head>  
    <body>  
        <h3>Original Array</h3>  
        <p id="original"></p>  
        <h3>Modified Array</h3>  
        <p id="modified"></p>  
        <script>  
            function popElement() {  
                let arr1 = ["one", "two", "three", "four"];  
                arr1.pop();  
                document.getElementById("modified").innerHTML = arr1;  
            }  
        </script>  
    </body>  
</html>
```

```
document.getElementById("original").innerText = arr1;  
arr1.shift();  
document.getElementById("modified").innerText = arr1;  
}  
popElement();  
</script>  
</body>  
</html>
```

Q6. Display Grade Based on Marks

```
<html lang="en">  
  <head>  
    <title>Document</title>  
  </head>  
  <body>  
    <input id="marks" type="text" />  
    <button onclick="checkGrade()">Check grade</button>  
    <p id="grade"></p>  
    <script>  
      function checkGrade() {  
        let marks =  
          parseInt(document.getElementById("marks").value);
```

```
let grade = document.getElementById("grade");
if (marks > 75) {
    grade.innerHTML = "your grade is A";
} else if (marks <= 75 && marks > 40) {
    grade.innerHTML = "your grade is B";
} else if (marks < 40) {
    grade.innerHTML = "your grade is C"; }
</script>
</body>
</html>
```

Q7. Change image on button click using javascript

```
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>Document</title>
</head>
<body>
    <h1>Change Image Example</h1>
    
```

```
<br />
<br />
<button onclick="changeImage()">Change Image</button>
<script>
function changeImage() {
    document.getElementById("myImage").src = "image2.jpg";
}
</script>
</body>
</html>
```

Q8. Develop a webpage using css to demonstrate background colour and border

```
<html >
<head>
<title>Document</title>
<style>
.dashed-border {
    border: 5px dashed blue;
    padding: 10px;
    width: 150px;
    background-color: lightgray;
```

```
}
```

```
.solid-border {
```

```
    border: 5px solid black;
```

```
    padding: 10px;
```

```
    width: 150px;
```

```
    background-color: blue;
```

```
}
```

```
.dotted-border {
```

```
    border: 5px dotted red;
```

```
    padding: 10px;
```

```
    width: 150px;
```

```
    background-color: yellow;
```

```
}
```

```
.double-border {
```

```
    border: 5px double green;
```

```
    padding: 10px;
```

```
    width: 150px;
```

```
    background-color: cyan;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="dashed-border">
  <h2>dashed border</h2>
</div>
<br />
<div class="solid-border">
  <h2>solid border</h2>
</div>
<br />
<div class="dotted-border">
  <h2>dotted border</h2>
</div>
<br />
<div class="double-border">
  <h2>double border</h2>
</div>
</body>
</html>
```

Q9. Count vowels in a string using javascript

```
<html>
```

```
  <head>
```

```
    <title>Vowel Counter</title>
```

```
  </head>
```

```
  <body>
```

```
    <script>
```

```
      function countVowels(str) {
```

```
        let count = 0;
```

```
        const vowels = "aeiouAEIOU";
```

```
        for (let ch of str) {
```

```
          if (vowels.includes(ch)) {
```

```
            count++;
```

```
          }
```

```
        }
```

```
        return count;
```

```
      }
```

```
      let text = prompt("Enter a string:");
```

```
      alert(countVowels(text));
```

```
    </script>
```

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

Q10. Find the Largest of Three Numbers

```
<html>

<head>
    <title>Largest of Three Numbers</title>
</head>
<body>
<script>

let a = Number(prompt("Enter first number:"));
let b = Number(prompt("Enter second number:"));
let c = Number(prompt("Enter third number:"));

let largest;
if (a >= b && a >= c) {
    largest = a;
} else if (b >= a && b >= c) {
    largest = b;
} else {
    largest = c; }

alert("The largest number is " + largest);

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

Q11. Find square and cube of a number using Javascript

```
<html>
```

```
  <head>
```

```
    <title>Document</title>
```

```
  </head>
```

```
  <body>
```

```
    <script>
```

```
      function squareCube() {
```

```
        let num = parseInt(prompt("Enter a number:"));
```

```
        let square = num * num;
```

```
        let cube = num * num * num;
```

```
        alert("Square: " + square + "\nCube: " + cube);
```

```
      }
```

```
      squareCube();
```

```
    </script>
```

```
  </body>
```

```
</html>
```