Problem statement: Write a html and JavaScript code to create three input text field where first two takes input from user and third field shows the result of their sum.

CODE:

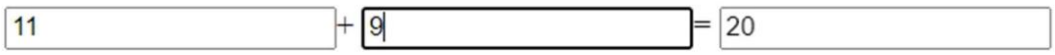
```
<html>
   <head>
      <title>Add Automatic</title>
      <script>
function add(){
   var a=parseInt(document.getElementById('num1').value);
   var b=parseInt(document.getElementById("num2").value);
   var res=(document.getElementById("res"));
   var sum=a+b
      res.value=sum

}

      </script>
   </head>


   <body>
<input type="text" name="" id="num1" oninput="add()" > + <input type="text" name="" oninput="add()" id="num2"> = <input type="text" id="res" readonly >
   </body>
</html>
```

OUTPUT:



Problem statement: Write a program in JavaScript to change the colour of background and colour of paragraph.

CODE:

```
<html>
   <head>
      <title></title>
      <script>
function BgChange(){
   document.getElementById('two').style.color='red';
   document.body.style.backgroundColor = "green";

}
      </script>
   </head>
   <body>
<p id="two">Hello Guys</p>
<input type="button" name="Colour" onclick="BgChange()">
   </body>
</html>
```

OUTPUT:

Problem statement: Write a program in JavaScript to check the number is prime or not using prompt box.

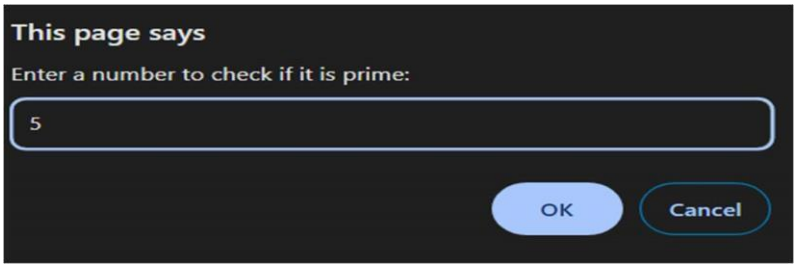
CODE:

```
<html>
<head>
<title>JS Example</title>

   <script>
      function prime(){
var number=prompt("Enter a number to be chacked:");
isPrime=true;
for(var i=2;i<number;i++){
   if(number%i==0){
      isPrime=false;
      break;
   }
}
if(isPrime==true){
   alert(number +"is Prime number");
```

```
}
else{
    alert(number +"is not Prime number");
}
        }
        prime();
    </script>
</head>
<body>
</body>
</html>
```

OUTPUT:



Problem statement: Write a program in html and JavaScript to check the number is prime or not input is taken from html textbox.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Prime Number Checker</title>
</head>
<body>
    <h2>Prime Number Checker</h2>
    <p>Enter a number below to see if it's a prime number:</p>
    <input type="text" id="number" placeholder="Enter a number" oninput="checkPrime()">
    <p id="result"></p>

    <script>
        function checkPrime(){
            var nm=document.getElementById('number').value;
            var rs=document.getElementById('result');
            for(var i=0;i<nm;i++){
                if(nm%i==0){

                }
            }
        }
    </script>
</body>
</html><body>
    <label for="numberInput">Enter a number:</label>
    <input type="text" id="numberInput">
    <bu on onclick="checkPrime()">Check</bu on>
    <p id="result"></p>
</body>
</html>
```

OUTPUT:

Problem statement: Write a program in JavaScript to input the String using prompt box then count uppercase character, lowercase character, space, special character, length, total digit and total alphabets.

CODE:

```
<html>
<head>
   <script>
    function analyzeString() {
        let inputString = prompt("Enter a
string:");

          if (inputString !== null) {
let uppercaseCount = 0;
        let lowercaseCount = 0;
     let spaceCount = 0;
   let specialCharCount = 0;
  let digitCount = 0;
     let alphabetCount = 0;
  let totalLength = inputString.length;

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

```
      let char = inputString.charAt(i);
if (char >= 'A' && char <= 'Z')
 {
     uppercaseCount++;
alphabetCount++;
                }
else if (char >= 'a' && char <= 'z')
{
  lowercaseCount++;
alphabetCount++;
    }
else if (char === ' ') {
spaceCount++;
                } else if (char >= '0' && char <= '9') {
```

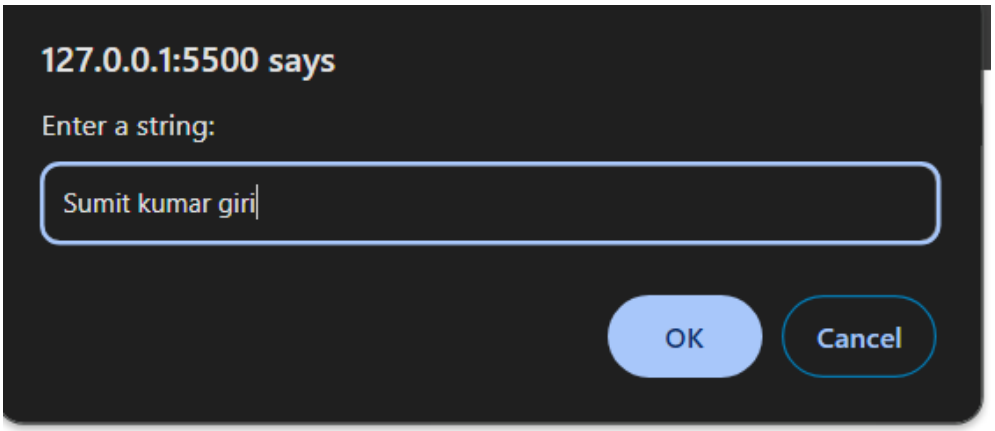
```
                digitCount++;
            } else {
specialCharCount++;
            }
        }

        // Display the results
        document.getElementById("uppercaseCount").innerText = "Uppercase characters: " +
uppercaseCount;

document.getElementById("lowercaseCount").innerText = "Lowercase characters: "
+lowercaseCount;
      document.getElementById("spaceCount").innerText = "Spaces: " + spaceCount;
        document.getElementById("specialCharCount").innerText = "Special characters:
" + specialCharCount;
    document.getElementById("digitCount").innerText = "Digits: " + digitCount;
        document.getElementById("alphabetCount").innerText = "Total alphabets: " +
alphabetCount;
  document.getElementById("totalLength").innerText = "Total length: " + totalLength;
      } else {
        document.getElementById("result").innerText = "No input provided.";
      }
    }
  </script>
</head>
<body onload="analyzeString()">
  <h1>String Analysis</h1>
  <p id="uppercaseCount"></p>
  <p id="lowercaseCount"></p>
  <p id="spaceCount"></p>
  <p id="specialCharCount"></p>
```

```
    <p id="digitCount"></p>
    <p id="alphabetCount"></p>
    <p id="totalLength"></p>
    <p id="result"></p>
</body>
</html>
```

OUTPUT:



String Analysis

Uppercase characters: 1

Lowercase characters: 13

Spaces: 2

Special characters: 0

Digits: 0

Total alphabets: 14

Total length: 16