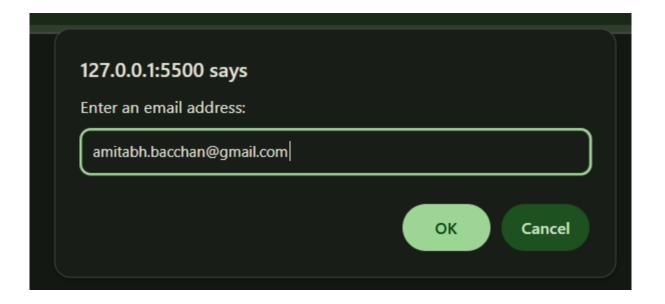
Name: Mukund Kuthe
3rd Year Section B (B1)
Practical 6 (JavaScript)

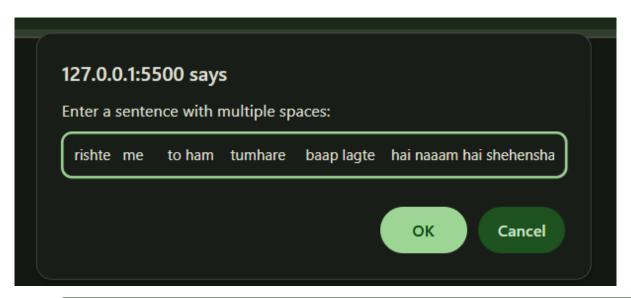
Part 1:

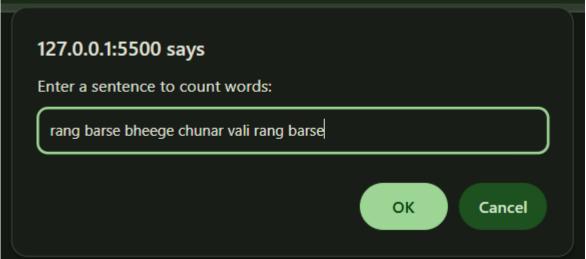
```
<!DOCTYPE html>
     <html>
 2
 3
     <head>
     <title>Practical 6 - String Tasks</title>
 5
     </head>
     <body>
 6 🗸
       <script>
8
         // Task 1: Name Formatter
         let nameInput = prompt("Enter a name (e.g. ' jOhN doE '):");
9
         let formattedName = nameInput.trim().split(" ").map(word =>
10
         word.charAt(0).toUpperCase() + word.slice(1).toLowerCase()
11
12
         ).join(" ");
         document.write("Formatted Name: " + formattedName + "<br>");
13
14
15
         // Task 2: Reverse a String
         let str = prompt("Enter a string to reverse:");
16
17
         let reversed = str.split("").reverse().join("");
         document.write("Reversed String: " + reversed + "<br>");
18
19
         // Task 3: Validate Email Address
20
21
         let email = prompt("Enter an email address:");
         let isValid = /^[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,}$/.test(email);
22
         document.write("Valid Email: " + isValid + "<br>");
23
24
25
         // Task 4: Replace Multiple Spaces with Single Space
         let text = prompt("Enter a sentence with multiple spaces:");
26
         let singleSpaced = text.replace(/\s+/g, " ");
27
         document.write("Cleaned Text: " + singleSpaced + "<br>");
28
29
         // Task 5: Word Count
30
         let sentence = prompt("Enter a sentence to count words:");
31
         let wordCount = sentence.split(" ").length;
32
33
         document.write("Word Count: " + wordCount + "<br>");
34
       </script>
     </body>
     </html>
36
37
```











Output:

Formatted Name: Amitabh Bacchan

Reversed String: ijnahccaB

Valid Email: true

Cleaned Text: rishte me to ham tumhare baap lagte hai naaam hai shehenshah

Word Count: 7

Part 2:

Task 1:

```
⋈ Welcome
                Task1.html ×
Task1.html > ...
       <!doctype html>
  2
       <html lang="en">
         <meta charset="utf-8">
        <title>Validate Mobile Number</title>
  6
  7
       <body>
  8
         <h2>Validate Mobile Number</h2>
  9
         <input id="mobile" type="text" placeholder="Enter mobile number">
 10
         <button onclick="checkMobile()">Check</button>
 11
         12
 13
         <script>
 14
          function checkMobile() {
            const num = document.getElementById('mobile').value.trim();
 15
            const regex = /^[6-9]\d{9}$/;
 16
 17
            document.getElementById('result').textContent = regex.test(num)
              ? '☑ Valid Mobile Number'
 18
 19
               : '✗ Invalid Mobile Number';
 20
 21
         </script>
 22
       </body>
       </html>
 23
 24
          Validate Mobile Number
                                           +
              ① 127.0.0.1:5500/Task1.html
```

Validate Mobile Number



V Valid Mobile Number

Task 2:

```
Task2.html ×
⋈ Welcome
               Task1.html
Task2.html > ...
     <!doctype html>
      <html lang="en">
        <meta charset="utf-8">
  4
        <title>Extract Dates</title>
      </head>
  6
       <body>
  8
        <h2>Extract Dates</h2>
  9
         <textarea id="text" rows="3">Today's date is 12/09/2025 and tomorrow is 13/09/2025</textarea><br>
        <button onclick="extractDates()">Extract</button>
  10
  11
        12
  13
         <script>
          function extractDates() {
 14
           const text = document.getElementById('text').value;
 15
 16
            const regex = \frac{b}{d2}/\frac{2}{\sqrt{d4} \cdot b/g};
  17
            const matches = text.match(regex);
            document.getElementById('result').textContent = matches ? matches.join(', ') : 'No dates found';
 18
 20
        </script>
  21
       </body>
       </html>
 22
```

Extract Dates

```
Today's date is
12/09/2025 and
tomorrow is 13/09/2025
```

Extract

12/09/2025, 13/09/2025

Task 3:

```
Task3.html > ♦ html
 1 <!doctype html>
      <html lang="en">
       <meta charset="utf-8">
       <title>Password Strength Checker</title>
 6
 7
       <h2>Password Strength Checker</h2>
 9
        <input id="pwd" type="text" placeholder="Enter password">
 10
        <button onclick="checkPassword()">Check</button>
 11
        12
        <script>
 13
 14
         function checkPassword() {
           const pwd = document.getElementById('pwd').value;
16
           const errors = [];
17
            if (pwd.length < 8) errors.push("★ Must be at least 8 characters");</pre>
            if (!/[A-Z]/.test(pwd)) errors.push("X Must contain an uppercase letter");
 19
            if (!/[a-z]/.test(pwd)) errors.push("X Must contain a lowercase letter");
 20
           if (!/\d/.test(pwd)) errors.push("X Must contain a digit");
 22
           if (!/[@$!%*?&]/.test(pwd)) errors.push("X Must contain a special char (@$!%*?&)");
 23
 24
           document.getElementById('result').innerHTML =
 25
              errors.length === 0
              ? "☑ Strong Password"
 26
 27
              : errors.join("<br>");
 28
 29
       </script>
 30
      </body>
 31
      </html>
 32
```





① 127.0.0.1:5500/Task3.html

Password Strength Checker

@Arusblhgdkjhfb.kjegf2 Check



Task 4:

```
Task4.html > ...
     <!doctype html>
      <html lang="en">
       <meta charset="utf-8">
       <title>Find Duplicate Words</title>
 6
     </head>
       <h2>Find Duplicate Words</h2>
       <input id="text" type="text" value="This is is a test test"><br><br>
 9
       <button onclick="findDuplicates()">Find</button>
       11
12
13
       <script>
         function findDuplicates() {
           const text = document.getElementById('text').value;
15
16
            const regex = \langle b(\w+)\s+\1\b/gi;
            let matches = [], m;
            while ((m = regex.exec(text)) !== null) matches.push(m[1]);
18
19
            document.getElementById('result').textContent = matches.length ? matches.join(', ') : 'No duplicates';
20
21
       </script>
22
      </body>
23
      </html>
```

Find Duplicate Words

hi hi helo helo

Find

hi, helo

Task 5:

```
Task5.html > ...
     <!doctype html>
      <html lang="en">
      <head>
       <meta charset="utf-8">
<title>Extract Hashtags</title>
      </head>
      <body>
       <h2>Extract Hashtags</h2>
        <input id="text" type="text" value="Learning #JS is #fun and #exciting"><br><br>
        <button onclick="extractHashtags()">Extract</button>
        function extractHashtags() {
  const text = document
  const
           const text = document.getElementById('text').value;
const regex = /#[A-Za-z8-9_]+/g;
const matches = text.match(regex);
             document.getElementById('result').textContent = matches ? matches.join(', ') : 'No hashtags found';
       </script>
21 </body>
       </html>
```

Extract Hashtags

Learning #JS is #fun an

Extract

#JS, #fun, #exciting