

Name: Mukund Kuthe

3rd Year Section B (B1)

Practical 6 (JavaScript)

Part 1:

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

127.0.0.1:5500 says

Enter a name (e.g. 'jOhN doE '):

OK Cancel

127.0.0.1:5500 says

Enter a string to reverse:

OK Cancel

127.0.0.1:5500 says

Enter an email address:

OK Cancel

127.0.0.1:5500 says

Enter a sentence with multiple spaces:

rishte me to ham tumhare baap lagte hai naaam hai shehensha

OK Cancel

127.0.0.1:5500 says

Enter a sentence to count words:

rang barse bheege chunar vali rang barse

OK Cancel

Output:

Formatted Name: Amitabh Bacchan

Reversed String: ijnahccaB

Valid Email: true

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

Word Count: 7

Part 2:

Task 1:

Welcome

Task1.html

Task1.html > ...
1 <!doctype html>
2 <html lang="en">
3 <head>
4 <meta charset="utf-8">
5 <title>Validate Mobile Number</title>
6 </head>
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 <p id="result"></p>
12
13 <script>
14 function checkMobile() {
15 const num = document.getElementById('mobile').value.trim();
16 const regex = /^[6-9]\d{9}\$/;
17 document.getElementById('result').textContent = regex.test(num)
18 ? '✅ Valid Mobile Number'
19 : '❌ Invalid Mobile Number';
20 }
21 </script>
22 </body>
23 </html>
24

Validate Mobile Number

127.0.0.1:5500/Task1.html

Validate Mobile Number

9561971251

✅ Valid Mobile Number

Task 2:

Task2.html > ...

```
1 <!doctype html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8">
5   <title>Extract Dates</title>
6 </head>
7 <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>
10  <button onclick="extractDates()">Extract</button>
11  <p id="result"></p>
12
13  <script>
14    function extractDates() {
15      const text = document.getElementById('text').value;
16      const regex = /\b\d{2}\b\/\d{2}\b\/\d{4}\b/g;
17      const matches = text.match(regex);
18      document.getElementById('result').textContent = matches ? matches.join(', ') : 'No dates found';
19    }
20  </script>
21 </body>
22 </html>
23
```

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



127.0.0.1:5500/Task3.html

Password Strength Checker

@Arusblhgdkjhfb.kjegf2

Check



Strong Password

Task 4:

```
Task4.html > ...
1  <!doctype html>
2  <html lang="en">
3  <head>
4  |   <meta charset="utf-8">
5  |   <title>Find Duplicate Words</title>
6  </head>
7  <body>
8  |   <h2>Find Duplicate Words</h2>
9  |   <input id="text" type="text" value="This is is a test test"><br><br>
10 |   <button onclick="findDuplicates()">Find</button>
11 |   <p id="result"></p>
12 |
13 |   <script>
14 |     function findDuplicates() {
15 |       const text = document.getElementById('text').value;
16 |       const regex = /\b(\w+)\s+\1\b/gi;
17 |       let matches = [], m;
18 |       while ((m = regex.exec(text)) !== null) matches.push(m[1]);
19 |       document.getElementById('result').textContent = matches.length ? matches.join(', ') : 'No duplicates';
20 |     }
21 |   </script>
22 </body>
23 </html>
24 |
```

Find Duplicate Words

hi hi helo helo

Find

hi, helo

Task 5:

```
Task5.html > ...
1  <!doctype html>
2  <html lang="en">
3  <head>
4    <meta charset="utf-8">
5    <title>Extract Hashtags</title>
6  </head>
7  <body>
8    <h2>Extract Hashtags</h2>
9    <input id="text" type="text" value="Learning #JS is #fun and #exciting"><br><br>
10   <button onclick="extractHashtags()">Extract</button>
11   <p id="result"></p>
12
13   <script>
14     function extractHashtags() {
15       const text = document.getElementById('text').value;
16       const regex = /[A-Za-z0-9_]+/g;
17       const matches = text.match(regex);
18       document.getElementById('result').textContent = matches ? matches.join(' ') : 'No hashtags found';
19     }
20   </script>
21 </body>
22 </html>
23
```

Extract Hashtags

Learning #JS is #fun an

Extract

#JS, #fun, #exciting