1) One of the parts from assignment 2 that could be improved with JavaScript is updating the progress table, previously (without JavaScript) I would have to change the HTML to update the table but with the help of JS, I can take the input from the user and update it at hand there itself. It can also show an alert before updating which would say that we are now updating the progress to the input given by you(user).

Before-

Code-

HTML-

```html
<section class="T">
    <table>
        <caption><h2>Progress</h2></caption>
        <tr>
            <th>HTML</th>
            <th>CSS</th>
            <th>JAVASCRIPT</th>
        </tr>
        <tr>
            <td>DONE</td>
            <td>DONE</td>
            <td>    Not yet</td>
        </tr>
    </table>
</section>
```

CSS-

```css
table, th, td{
    border: 1px solid black;
    text-align: center;
    align-content: center;
    padding: 10px;
    margin-left: auto;
    margin-right: auto;
}

.T{
    align-content: center;
}

th{
    background-color: dodgerblue;
}
```

Outcome-

Progress

HTML	CSS	JAVASCRIPT
DONE	DONE	Not yet

Desired Outcome-

PROGRESS OF JAVASCRIPT → [INPUT]

[SUBMIT]

HTML	CSS	JAVAS
DONE	DONE	Input

New Code-
HTML-

```
<section class="T">
    <table>
        <caption><h2>Progress</h2></caption>
        <tr>
            <th>HTML</th>
            <th>CSS</th>
            <th>JAVASCRIPT</th>
        </tr>
```

```html
            <tr>
                <td>DONE</td>
                <td>DONE</td>
                <td id="progress">    Not yet</td>
            </tr>
            <p class="input">
                <label for="progressInput">JS Progress:</label>
                <input type="text" id="progressInput" name="first"
placeholder="Completed/used/Not Yet">
            </p>
            <p>
                <input type="submit" value="Submit" id="submit">
            </p>
        </table>
    </section>
</main>
<script src="index.js"></script>
```

CSS-

```css
input[type="text"]{
    width: 50% ;
    font-size: x-large;
    padding: 10px;
}
input[type="submit"]{
    align-items: center;
    width: 100% ;
    font-size: x-large;
    padding: 10px;
}
```

JavaScript-

```javascript
let submitBtn=document.getElementById("submit");
submitBtn.addEventListener("click",changeProg);

function changeProg(){
    let input=document.getElementById("progressInput");
    let currProg=document.getElementById("progress");
    currProg.textContent=input.value;
    alert("Progress Updating...");
}
```

Outcome-

JS Progress: Done

Submit

Progress

HTML	CSS	JAVASCRIPT
DONE	DONE	Done

2) The second part which by using JS becomes better is in the Form webpage where the submit button was always clickable even without any input on the name or other fields. Using JavaScript, the submit button is only clickable if the user put at least 4 characters in the first name input, I understand that this can be done without JavaScript by making that input section required, But the purpose here is not to make it a requirement, rather check for length in the name of the user puts at least 4 characters (as in most countries the average name has minimum 4 alphabets) only then the user can submit the form, also previously there is no way for a user to be assured that the form was submitted however by using notifications with the help of JS we can prompt the user that the form was submitted.

Before-

HTML-

```html
<form action=" " method="Get">
    <h1 class="MainH">Website Vist Form</h1>
    <hr>
    <h1>Details</h1>
    <p>
        <label for="first">First Name:</label>
        <input type="text" id="first" name="first" placeholder="Jeff">
    </p>
    <p>
        <label for="Last">Last Name:</label>
        <input type="text" id="Last" name="Last" placeholder="Gates">
    </p>
    <p>
        <label for="Mail">E Mail:</label>
        <input type="text" id="Mail" name="Mail"
placeholder="example@gmail.com">
    </p>
    <p>
        <label for="feedBack">FeedBack:</label>
        <p> <textarea placeholder="Enter Feedback, Compliments etc"
name="feedBack" id="feedback" rows="5" cols="70"></textarea>
        </p>
    </p>
    <p>
        <input type="submit" value="Submit">
    </p>
</form>
```

CSS-

```css
input[type="submit"]{
```

```
    background-color: rgb(86, 152, 86);
    color: white;
    padding: 12px 20px;
    font-size: large;
    width: 100%;
}
```

```
input[type="submit"]:hover{
    background-color: rgba(160, 248, 8, 0.663);
}
```

Outcome-

Website Vist Form

Details

First Name:

Jeff

Last Name:

Gates

E Mail:

example@gmail.com

FeedBack:

Enter Feedback, Compliments etc

Submit

Desired Outcome- The submit button should be disabled in the above screenshot as no input is given, but hovering on the submit button changes the color and is clickable. On updating the code, The submit button should be disabled and ones it passes the condition it should show a notification which gives us an idea that we submitted the feedback successfully.-

New code-

HTML-

```
<div class="Content">
        <form action=" " method="Get">
            <h1 class="MainH">Website Vist Form</h1>
            <hr>
            <h1>Details</h1>
            <p>
```

```html
            <label for="first">First Name:</label>
            <input type="text" id="first" name="first" placeholder="Jeff">
        </p>
        <p>
            <label for="Last">Last Name:</label>
            <input type="text" id="Last" name="Last" placeholder="Gates">
        </p>
        <p>
            <label for="Mail">E Mail:</label>
            <input type="text" id="Mail" name="Mail"
placeholder="example@gmail.com">
        </p>
        <p>
            <label for="feedback">FeedBack:</label>
          <p> <textarea placeholder="Enter Feedback, Compliments etc"
name="feedBack" id="feedback" rows="5" cols="70"></textarea>
            </p>
        </p>
        <p>
            <button disabled type="submit" id="submit"
value="Submit">Submit</button>
        </p>
    </form>
  </div>
  <script src="forms.js"></script>
```
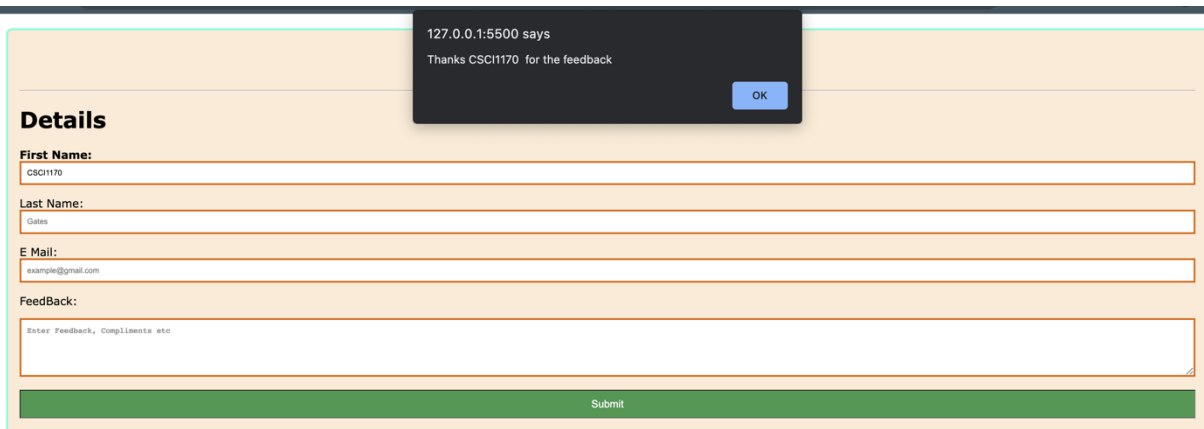
CSS-

```css
#submit{

    background-color: rgb(86, 152, 86);
    color: white;
    padding: 12px 20px;
    font-size: large;
    width: 100%;
}
```

JS-

```js
function show_alert(){
    var lName=document.getElementById("Last").value;
    alert("Thanks "+Name.value+" "+lName+" for the feedback");
}
```

```
var Name= document.getElementById("first");
let submitBtn=document.getElementById("submit");

Name.addEventListener("keyup",()=>{
    submitBtn.disable=true;

    if (Name.value.length>4){
        submitBtn.disabled=false;
        submitBtn.addEventListener("click",show_alert);
    }else{
        submitBtn.disabled=true;

    }
});
```

Outcome-

When No input- (Button disabled).

When input has more than 4 character-