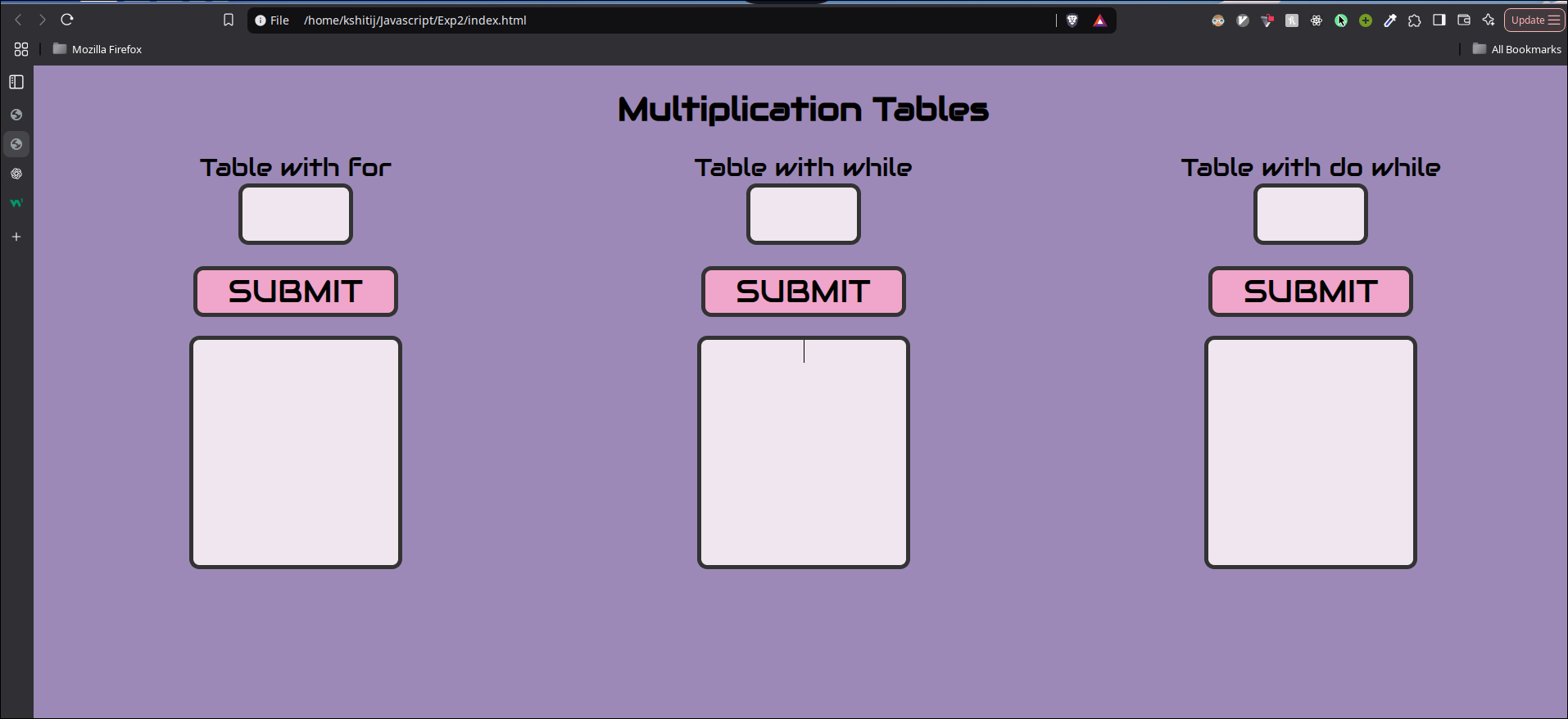
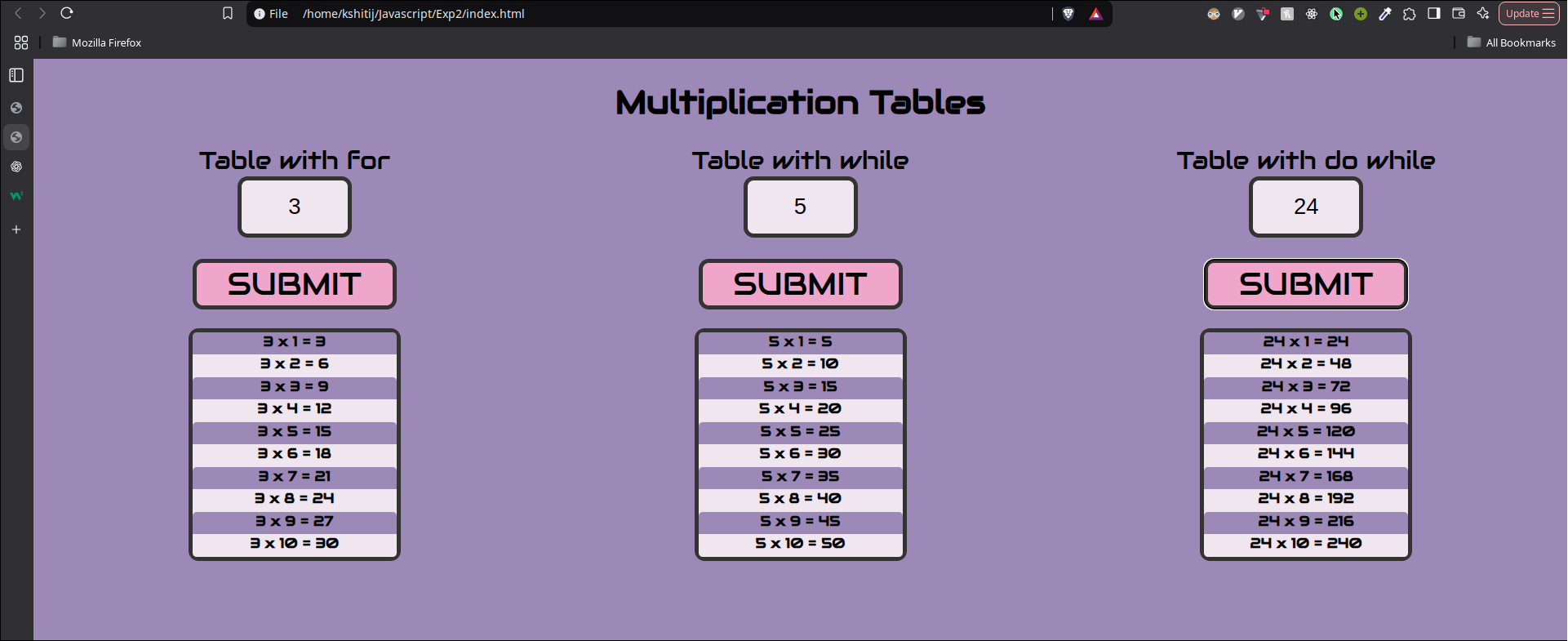
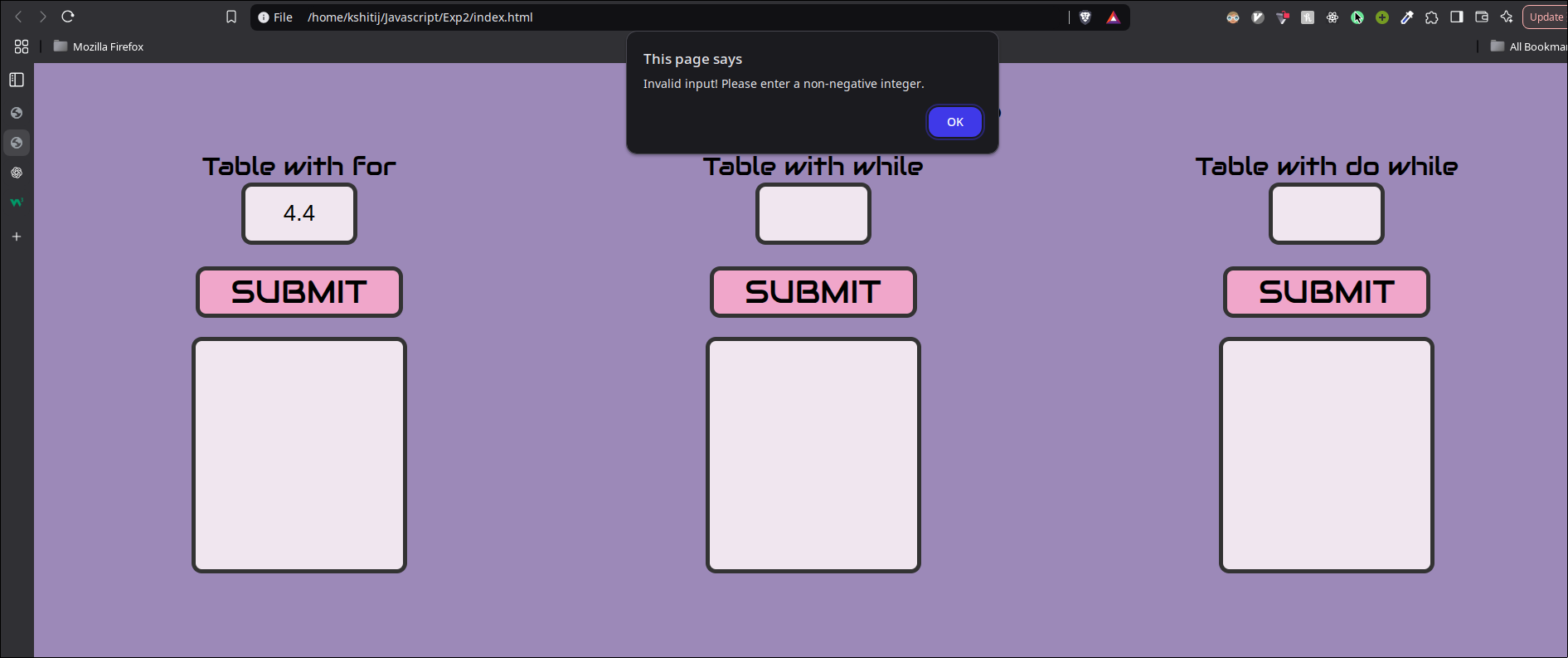
**Output:**



**Fig. Base website**



**Fig. Tables with for, while and do while**



**Fig. Invalid number (negative or decimal) error**

**Code:**

1. **HTML:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<!-- Logic Sits here -->

<script src=tables.js></script>

<!-- Visuals Sit here -->

<link rel="stylesheet" href="styles.css">

<title>Tables</title>

</head>

<body>

<h1 id="title">Multiplication Tables</h1>

<div class="row-format">

<div class="block">

<label id="label"> Enter number </label>

<input id="in\_for" type="number"></input><br>

<button id="btn\_for" onclick="table\_with\_for()"> Submit </button>

<div class="table">

<p id="table\_for"></p>

</div>

</div>

<div class="block">

<label id="label"> Enter number </label>

<input id="in\_while" type="number"></input><br>

<button id="btn\_while" onclick="table\_with\_while()"> Submit </button>

<div class="table">

<p id="table\_while"></p>

</div>

</div>

<div class="block">

<label id="label"> Enter number </label>

<input id="in\_dowhile" type="number"></input><br>

<button id="btn\_dowhile" onclick="table\_with\_dowhile()"> Submit </button>

<div class="table">

<p id="table\_dowhile"></p>

</div>

</div>

</div>

</body>

</html>

1. **Javascript:**

// For CSS

let ll = "lightline";

let dl = "darkline";

function table\_with\_for() {

let n = Number(document.getElementById("in\_for").value);

if (!Number.isInteger(n) || n < 0) {

alert("Invalid input! Please enter a non-negative integer.");

return;

}

let full\_text = "";

for (let i = 1; i <= 10; i++) {

let text = `${n} x ${i} = ${n \* i}`;

let line = (i % 2 == 0) ? ll : dl;

let final\_line = `<h3 id="${line}">` + text + "</p><br>";

full\_text += final\_line;

}

document.getElementById("table\_for").innerHTML = `${full\_text}`

}

function table\_with\_while() {

let n = Number(document.getElementById("in\_while").value);

let full\_text = "";

let i = 1;

while (i <= 10) {

let text = `${n} x ${i} = ${n \* i}`;

let line = (i % 2 == 0) ? ll : dl;

let final\_line = `<h3 id="${line}">` + text + "</p><br>";

full\_text += final\_line;

i++;

}

document.getElementById("table\_while").innerHTML = `${full\_text}`

}

function table\_with\_dowhile() {

let n = Number(document.getElementById("in\_dowhile").value);

let full\_text = "";

let i = 1;

do {

let text = `${n} x ${i} = ${n \* i}`;

let line = (i % 2 == 0) ? ll : dl;

let final\_line = `<h3 id="${line}">` + text + "</p><br>";

full\_text += final\_line;

i++;

} while (i <= 10);

document.getElementById("table\_dowhile").innerHTML = `${full\_text}`

}