**Name: Areen Chakraborty**

**220905496**

**CSE A Roll No. 53**

**Batch A2**

**Web Programming Lab – Week 2 Assignment**

A close-up of a computer

Description automatically generated

index.html:

<!DOCTYPE html>

<html>

<head>

<title>Product Bill Generator</title>

<style>

body {

    font-family: sans-serif;

}

#container {

    width: 400px;

    margin: 20px auto;

    padding: 20px;

    border: 1px solid #ccc;

    border-radius: 5px;

}

label {

    display: block;

    margin-bottom: 5px;

}

input[type="text"], select {

    width: calc(100% - 12px);

    padding: 8px;

    margin-bottom: 10px;

    box-sizing: border-box;

}

#bill-area{

    margin-top: 20px;

    border-top: 1px solid #ccc;

    padding-top: 10px;

}

</style>

</head>

<body>

<div id="container">

    <h2>Product Selection</h2>

    <label for="brand">Select Brand:</label>

    <select id="brand">

        <option value="">--Select Brand--</option>

        <option value="HP">HP</option>

        <option value="Nokia">Nokia</option>

        <option value="Samsung">Samsung</option>

        <option value="Motorola">Motorola</option>

        <option value="Apple">Apple</option>

    </select>

    <label>Select Product Type(s):</label>

    <input type="checkbox" id="mobile" name="product" value="Mobile">

    <label for="mobile">Mobile</label><br>

    <input type="checkbox" id="laptop" name="product" value="Laptop">

    <label for="laptop">Laptop</label><br>

    <label for="quantity">Enter Quantity:</label>

    <input type="text" id="quantity" value="1">

    <button onclick="produceBill()">Produce Bill</button>

    <div id="bill-area">

    </div>

</div>

<script>

const prices = {

    HP: { Mobile: 10000, Laptop: 50000 },

    Nokia: { Mobile: 8000, Laptop: 40000 },

    Samsung: { Mobile: 12000, Laptop: 60000 },

    Motorola: { Mobile: 9000, Laptop: 45000 },

    Apple: { Mobile: 15000, Laptop: 70000 }

};

function produceBill() {

    const brand = document.getElementById("brand").value;

    const products = document.querySelectorAll('input[name="product"]:checked');

    const quantity = parseInt(document.getElementById("quantity").value);

    if (brand === "" || products.length === 0 || isNaN(quantity) || quantity <= 0) {

        alert("Please fill all fields with correct data");

        return;

    }

    let totalAmount = 0;

    let productDetails = "";

    products.forEach(product => {

        const unitPrice = prices[brand][product.value];

        productDetails += `${product.value} (₹${unitPrice}/unit)<br>`;

        totalAmount += unitPrice \* quantity;

    });

    let billText = "Brand: " + brand + "<br>";

    billText += "Products: " + productDetails + "<br>";

    billText += "Quantity: " + quantity + "<br>";

    billText += "Total Amount: ₹" + totalAmount + "<br>";

    document.getElementById("bill-area").innerHTML = billText;

    alert("Total Bill Amount: ₹" + totalAmount);

}

</script>

</body>

</html>

Image:

A screenshot of a product selection

Description automatically generated



index.html:

<!DOCTYPE html>

<html>

<head>

<title>Bouncing Ball</title>

<style>

#container {

  width: 500px;

  height: 300px;

  border: 1px solid black;

  background-color: rgb(23, 92, 92);

  position: relative;

  overflow: hidden;

}

#ball {

  width: 50px;

  height: 50px;

  border-radius: 50%;

  border-width: 6px;

  border-color: black;

  background-color: yellow;

  position: absolute;

  left: 20px;

  top: 20px;

}

</style>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script> </head>

<body>

<div id="container">

  <div id="ball"></div>

</div>

<script>

$(document).ready(function() {

  function animateBall() {

    let ball = $("#ball");

    let containerHeight = $("#container").height();

    let ballHeight = ball.height();

    let containerWidth = $("#container").width();

    let ballWidth = ball.width();

    let currentTop = ball.position().top;

    let currentLeft = ball.position().left;

    let directionY = 1;

    let directionX = 1;

    let speed = 10;

    function bounce() {

      currentTop += speed \* directionY;

      currentLeft += speed \* directionX;

      if (currentTop + ballHeight > containerHeight || currentTop < 0) {

        directionY \*= -1;

      }

        if (currentLeft + ballWidth > containerWidth || currentLeft < 0) {

        directionX \*= -1;

      }

      ball.css({ top: currentTop + "px", left: currentLeft + "px" });

      requestAnimationFrame(bounce);

    }

    bounce();

  }

  animateBall();

});

</script>

</body>

</html>

Image:

A yellow circle on a blue background

Description automatically generatedA yellow circle on a blue background

Description automatically generated



index.html:

<!DOCTYPE html>

<html>

<head>

<title>Image with Sliding Text</title>

<style>

body {

  margin: 0;

  overflow-x: hidden;

}

#container {

  width: 800px;

  height: 400px;

  position: relative;

  margin: 20px auto;

  overflow: hidden;

}

#image {

  width: 100%;

  height: 100%;

  object-fit: cover;

  display: block;

}

#sliding-text {

  position: absolute;

  top: 50%;

  left: 100%;

  transform: translateY(-50%);

  white-space: nowrap;

  font-size: 2em;

  color: white;

  background-color: rgba(0, 0, 0, 0.25);

  padding: 10px;

  animation: slide 10s linear infinite;

}

@keyframes slide {

  0% { left: 100%; }

  100% { left: -100%; }

}

</style>

</head>

<body>

<div id="container">

  <img id="image" src="demo.jpg" alt="Demo Image">

  <div id="sliding-text">Autumn is the best season</div>

</div>

</body>

</html>

Images:

A train on the tracks

Description automatically generated

A train on the tracks

Description automatically generated