Leiyan M. Doga-ong

APPDEV1

Activity Guide #1

HTML

ActivityGuide1 > index.html > html > body > hr

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8">
        <meta name ="viewport" content="width=device-width,initial-scale=1.0">
        <title>Activity Guide 1 </title>
    </head>

    <body>
        <h1> Activity Guide 1 </h1>

        <h4> 1. Personal Information </h4>
        Name: <input type ="text" id = "name"><br></br>
        Address: <input type="text" id="address"><br></br>
        Telephone Number: <input type="text" id="telephone"><br></br>
        Major: <input type="text" id="major"><br></br>

        <button id = "btn1" >Submit</button>
        <p id = "output"></p>

        <hr>

        <h4> 2. Sales Prediction </h4>
        <label for="salesInput">Enter projected total sales:</label>
        <input type="text" id="salesInput"><br></br>
        <button onclick="calculateProfit()">Calculate Profit</button>
        <p id="result"></p>

        <hr>

        <h4> 3. Distance Traveled </h4>
        <label for="time1">Time 1 (in hours):</label>
        <input type="text" id="time1"><br></br>

        <label for="time2">Time 2 (in hours):</label>
        <input type="text" id="time2"><br></br>

        <label for="time3">Time 3 (in hours):</label>
        <input type="text" id="time3"><br></br>

        <button onclick="calculateDistance()">Calculate</button>
        <h3>Results:</h3>
        <p id="result1"></p>
        <p id="result2"></p>
        <p id="result3"></p>

        <hr>
```

```
48
49          <h4>4. Miles-per-Gallon</h4>
50          <label for="milesDriven">Miles Driven:</label>
51          <input type="number" id="milesDriven"><br></br>
52
53          <label for="gallonsUsed">Gallons of Gas Used:</label>
54          <input type="number" id="gallonsUsed"><br></br>
55
56          <button onclick="calculateMPG()">Calculate</button>
57          <h3>Result:</h3>
58          <p id="result4"></p>
59
60          <hr>
61
62          <h4>5. Celsius to Fahrenheit Temperature Converter</h4>
63          <label for="celsiusTemp">Enter temperature in Celsius:</label>
64          <input type="number" id="celsiusTemp"><br></br>
65
66          <button onclick="convertTemperature()">Convert</button>
67          <h3>Result:</h3>
68          <p id="result5"></p>
69
70          <hr>
71
72          <h4>6. Cookie Calories</h4>
73          <label for="cookiesEaten">Number of cookies eaten:</label>
74          <input type="number" id="cookiesEaten"><br></br>
75
76          <button onclick="calculateCalories()">Calculate</button>
77          <h3>Result:</h3>
78          <p id="result6"></p>
79
80          <hr>
81
82          <h4> 7. Male and Female </h4>
83          <label for="males"> Number of males: </label>
84          <input type="number" id="males"><br></br>
85
86          <label for="females"> Number of females: </label>
87          <input type="number" id="females"><br></br>
88
89          <button onclick="calculatePercentages()">Calculate</button>
90          <h3>Result:</h3>
91          <p id="result7"></p>
92
93          <hr>
```

```
94
95          <script src="app.js"></script>
96      </body>
97  </html>
```

APP.JS

ActivityGuide1 > JS app.js > ...

```
//Components for Item Number 1
const btn1 = document.getElementById("btn1")
btn1.addEventListener("click", () => {
    //populate variables
    let name = document.getElementById("name").value
    let address = document.getElementById("address").value
    let telephone = document.getElementById("telephone").value
    let major = document.getElementById("major").value
    let x = `Hello ${name}, I see that you are from ${address} and you are also pursuing your degree ${major} and you
    can be contacted using ${telephone}.`
    document.getElementById("output").innerHTML = x
})

//Components for Item Number 2
function calculateProfit() {
    const sales = document.getElementById('salesInput').value;
    const profit = sales * 0.23;
    const profitResult = document.getElementById('result');
    profitResult.textContent = `The projected profit from total sales of ${sales} is ${profit}.`;
}


//Components for Item Number 3
function calculateDistance() {
    const speed = 60;

    const time1 = parseInt(document.getElementById("time1").value);
    const time2 = parseInt(document.getElementById("time2").value);
    const time3 = parseInt(document.getElementById("time3").value);

    const distance1 = speed * time1;
    const distance2 = speed * time2;
    const distance3 = speed * time3;

    document.getElementById("result1").innerHTML = `The car will travel ${distance1} miles in ${time1} hours.`;
    document.getElementById("result2").innerHTML = `The car will travel ${distance2} miles in ${time2} hours.`;
    document.getElementById("result3").innerHTML = `The car will travel ${distance3} miles in ${time3} hours.`;
}

```

```

//Components for Item Number 4
function calculateMPG() {
    const milesDriven = document.getElementById("milesDriven").value;
    const gallonsUsed = document.getElementById("gallonsUsed").value;

    const mpg = milesDriven / gallonsUsed;

    document.getElementById("result4").innerHTML = `The car's MPG is ${mpg}.`;
}


//Components for Item Number 5
function convertTemperature() {
    const celsiusTemp = parseFloat(document.getElementById("celsiusTemp").value);

    const fahrenheitTemp = (9 / 5) * celsiusTemp + 32;

    document.getElementById("result5").innerHTML = `${celsiusTemp}°C is equal to ${fahrenheitTemp.toFixed(2)}°F`;
}

```

```
60
61  //Components for Item Number 6
62  function calculateCalories(){
63      const cookiesEaten = parseInt(document.getElementById("cookiesEaten").value)
64
65      const totalCalories = (cookiesEaten / 40) * 10 * 300;
66
67      document.getElementById("result6").innerHTML = `Total calories consumed: ${totalCalories}.`;
68  }
69
70
71  //Components for Item Number 7
72  function calculatePercentages() {
73      const males = parseInt(document.getElementById("males").value);
74      const females = parseInt(document.getElementById("females").value);
75
76      const totalStudents = males + females;
77
78      const percentageMales = (males / totalStudents) * 100;
79      const percentageFemales = (females / totalStudents) * 100;
80
81      document.getElementById("result7").innerHTML = `Percentage of Males: ${percentageMales}%<br>Percentage of Females: $
        {percentageFemales}%`;
82  }
```

OUTPUT

Activity Guide 1

1. Personal Information

Name: Leiyan

Address: Kias

Telephone Number: 09

Major: BSIT

Submit

Hello Leiyan, I see that you are from Kias and you are also pursuing your degree BSIT and you can be contacted using 09.

---

2. Sales Prediction

Enter projected total sales: 12

Calculate Profit

The projected profit from total sales of 12 is 2.7600000000000002.

---

3. Distance Traveled

Time 1 (in hours): 2

Time 2 (in hours): 3

Time 3 (in hours): 4

Calculate

Results:

The car will travel 120 miles in 2 hours.

The car will travel 180 miles in 3 hours.

The car will travel 240 miles in 4 hours.

---

4. Miles-per-Gallon

Miles Driven: 3

Gallons of Gas Used: 4

Calculate

Result:

The car's MPG is 0.75.

---

5. Celsius to Fahrenheit Temperature Converter

Enter temperature in Celsius: 5

Convert

Result:

5°C is equal to 41.00°F

---

6. Cookie Calories

Number of cookies eaten: 3

Calculate

Result:

Total calories consumed: 225.

---

7. Male and Female

Number of males: 20

Number of females: 8

Calculate

Result:

Percentage of Males: 71.42857142857143%
Percentage of Females: 28.57142857142857%