## **LEARNING**

- 1. Conditional statement in JavaScript: <a href="https://www.freecodecamp.org/news/javascript-if-else-and-if-then-js-conditional-statements/">https://www.freecodecamp.org/news/javascript-if-else-and-if-then-js-conditional-statements/</a>
- 2. Loop & iteration in JavaScript: <a href="https://developer.mozilla.org/en-us/docs/Web/JavaScript/Guide/Loops">https://developer.mozilla.org/en-us/docs/Web/JavaScript/Guide/Loops</a> and iteration

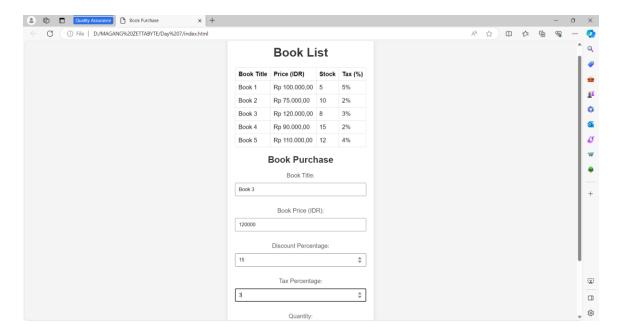
## **TASK**

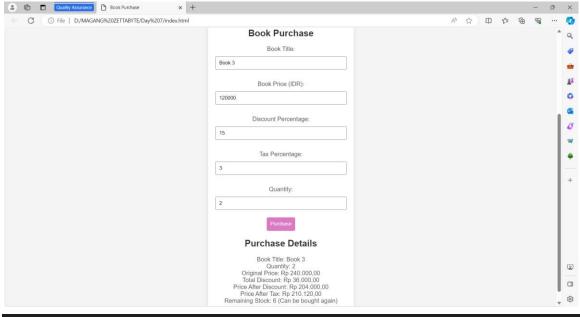
1. Update your book purchasing function to have parameter amount of stock & amount of purchased book. Then calculate total price & display the result.

## Note:

The function must have at least:

- for loop iteration
- break when amount of book is already out of stock
- Display text if amount of book after purchasing can be purchased again or not





```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Book Purchase</title>
       body {
           font-family: Arial, sans-serif;
           background-color: #f4f4f4;
           margin: 0;
           padding: 0;
           display: flex;
           align-items: center;
           justify-content: center;
           min-height: 100vh;
       .container {
           max-width: 600px;
           background-color: #fff;
           padding: 20px;
           box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
           border-radius: 8px;
           text-align: center;
       h1 {
           color: #333;
       }
       label {
```

```
display: block;
           margin: 10px 0;
           color: #555;
       input {
           width: 100%;
           padding: 8px;
           box-sizing: border-box;
           margin-bottom: 20px;
       button {
           background-color: #dd7ac4;
           color: #fff;
           padding: 10px;
           border: none;
           cursor: pointer;
           border-radius: 4px;
       button:hover {
           background-color: #65a4ce;
       h2 {
           margin-top: 20px;
           color: #333;
       p {
           color: #555;
       table {
           width: 100%;
           margin-top: 20px;
           border-collapse: collapse;
       th, td {
           border: 1px solid #ddd;
           padding: 8px;
           text-align: left;
<div class="container">
   <h1>Book List</h1>
```

```
Book Title
              Price (IDR)
              Stock
              Tax (%)
           </thead>
       <!-- Add book entries dynamically using JavaScript -->
       <h2>Book Purchase</h2>
   <label for="bookTitle">Book Title:</label>
   <input type="text" id="bookTitle" placeholder="Enter book title">
   <label for="bookPrice">Book Price (IDR):</label>
   <input type="number" id="bookPrice" placeholder="Enter book price">
   <label for="discountPercentage">Discount Percentage:</label>
   <input type="number" id="discountPercentage" placeholder="Enter discount</pre>
percentage">
   <label for="taxPercentage">Tax Percentage:</label>
   <input type="number" id="taxPercentage" placeholder="Enter tax percentage">
   <label for="quantity">Quantity:</label>
   <input type="number" id="quantity" placeholder="Enter quantity">
   <button onclick="calculatePrice()">Purchase</button>
   <h2>Purchase Details</h2>
   <script>
   const bookList = [
       { title: 'Book 1', price: 100000, stock: 5, tax: 5 },
       { title: 'Book 2', price: 75000, stock: 10, tax: 2 },
       { title: 'Book 3', price: 120000, stock: 8, tax: 3 },
       { title: 'Book 4', price: 90000, stock: 15, tax: 2 },
       { title: 'Book 5', price: 110000, stock: 12, tax: 4 },
```

```
function displayBookList() {
        const bookTableBody = document.getElementById('bookTableBody');
        bookList.forEach(book => {
            const row = document.createElement('tr');
            row.innerHTML = `
                ${book.title}
               ${formatCurrency(book.price)}
                ${book.stock}
               ${book.tax}%
            bookTableBody.appendChild(row);
       });
    function formatCurrency(amount) {
        return new Intl.NumberFormat('id-ID', { style: 'currency', currency: 'IDR'
}).format(amount);
    displayBookList(); // Call the function to display the book list
    function calculatePrice() {
        const bookTitle = document.getElementById('bookTitle').value;
        const quantity = parseInt(document.getElementById('quantity').value);
        const selectedBook = bookList.find(book => book.title === bookTitle);
        if (selectedBook && quantity > 0 && quantity <= selectedBook.stock) {</pre>
            const bookPrice = selectedBook.price;
            const discountPercentage =
parseFloat(document.getElementById('discountPercentage').value);
            const taxPercentage =
parseFloat(document.getElementById('taxPercentage').value);
            const discountAmount = (discountPercentage / 100) * bookPrice;
            const priceAfterDiscount = bookPrice - discountAmount;
            const taxAmount = (taxPercentage / 100) * priceAfterDiscount;
            const priceAfterTax = priceAfterDiscount + taxAmount;
            const originalPrice = quantity * bookPrice;
            const totalDiscount = quantity * discountAmount;
            const totalPriceAfterDiscount = quantity * priceAfterDiscount;
            const totalPriceAfterTax = quantity * priceAfterTax;
```

## **Logic Test**

1. Missing Number: <a href="https://drive.google.com/file/d/1ecLxb2sJMTx1Twkvci-xRhVNlp1KV0wx/view">https://drive.google.com/file/d/1ecLxb2sJMTx1Twkvci-xRhVNlp1KV0wx/view</a>

```
function hasUniqueCharacters(str) {
    let charMap = {};
    for (let char of str) {
        if (charMap[char]) {
            return false;
        }
        charMap[char] = true;
    }
    return true;
}

console.log(hasUniqueCharacters("abcdefg"));
console.log(hasUniqueCharacters("hello"));
```

Output:

true

false