LEARNING

1. Function in JavaScript. Watch course section 2 part 26, 27, 29 & 33:
   Part 26 Part 27 Part 29 Part 33
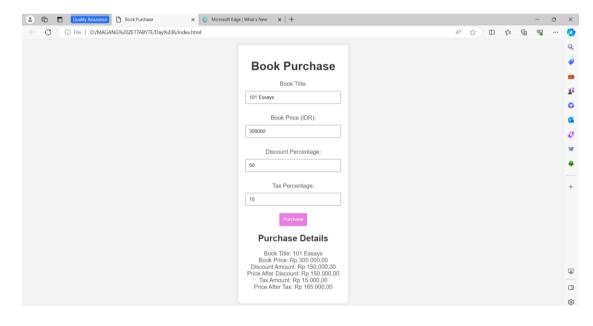2. Understanding function in JavaScript: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Functions

TASK

1. Try create a book purchasing function that has parameters detail of a book, percentage of the discount, percentage of tax. Then display all the parameters with additional data:
   - Amount of discount
   - Price after discount
   - Amount of tax
   - Price after tax

   Note:
   The function must have at least:
   - Constant variable
   - Boolean, number, string variable
   - Assignment, addition, addition, subtraction, multiplication, division operator


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

```css
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: #e77dde;
    color: #fff;
    padding: 10px;
    border: none;
    cursor: pointer;
    border-radius: 4px;
}
button:hover {
    background-color: #8ab1ec;
}
h2 {
    margin-top: 20px;
    color: #333;
}
p {
```

```html
            color: #555;
        }
    </style>
</head>
<body>

<div class="container">
    <h1>Book Purchase</h1>

    <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 percentage">

    <label for="taxPercentage">Tax Percentage:</label>
    <input type="number" id="taxPercentage" placeholder="Enter tax
percentage">

    <button onclick="calculatePrice()">Purchase</button>

    <h2>Purchase Details</h2>
    <p id="purchaseDetails"></p>
</div>

<script>
    function formatCurrency(amount) {
        return new Intl.NumberFormat('id-ID', { style: 'currency',
currency: 'IDR' }).format(amount);
    }

    function calculatePrice() {
        const bookTitle = document.getElementById('bookTitle').value;
        const bookPrice =
parseFloat(document.getElementById('bookPrice').value);
        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 purchaseDetails = `
            Book Title: ${bookTitle}<br>
            Book Price: ${formatCurrency(bookPrice)}<br>
            Discount Amount: ${formatCurrency(discountAmount)}<br>
            Price After Discount: ${formatCurrency(priceAfterDiscount)}<br>
            Tax Amount: ${formatCurrency(taxAmount)}<br>
            Price After Tax: ${formatCurrency(priceAfterTax)}
        `;

        document.getElementById('purchaseDetails').innerHTML =
purchaseDetails;
    }
</script>

</body>
</html>
```

Logic Test

1. Prime Number Checker: https://drive.google.com/file/d/1c-216JHBEzPlrlmjPxiKjbhFKoYXwm9K/view?usp=drive_link


```
function isPrime(n) {
    if (n <= 1) {
        return false;
    }

    for (let i = 2; i <= Math.sqrt(n); i++) {
```

```
    if (n % i === 0) {
      return false;
    }
  }

  return true;
}

console.log(isPrime(10));
console.log(isPrime(43));
```

Output:
False
True