Ex. No. 7	JavaScript Styles and Animation
Date of Exercise	24/10/2025
YouTube link	https://youtu.be/BtXaOJ01FoQ

Aim:

To create a **web application** for an **Age Calculator App** using **HTML**, **CSS**, and **jQuery**, which allows users to input their date of birth and automatically calculate their **age in years, months, and days**.

Description:

In this experiment, we develop an **Age Calculator Web Application** that utilizes HTML, CSS, and jQuery to create an interactive and visually appealing interface for users to determine their age. The application demonstrates how front-end technologies can work together to perform real-time calculations and dynamic updates on a web page.

This exercise focuses on two main concepts:

Form Handling and Date Manipulation:

Users enter their date of birth through an HTML form. Using jQuery, the program retrieves the input, processes the date, and calculates the difference between the current date and the entered date. This difference is then expressed in years, months, and days, showcasing how JavaScript's Date object and arithmetic operations can be used for accurate date-based computations.

Dynamic Display and User Interaction:

The calculated age is dynamically displayed on the webpage without reloading it. CSS enhances the page's design by defining layout, typography, and color schemes, while jQuery ensures smooth interaction and output presentation. This creates an intuitive, user-friendly experience that highlights the use of JavaScript/jQuery for real-time data processing and DOM manipulation.

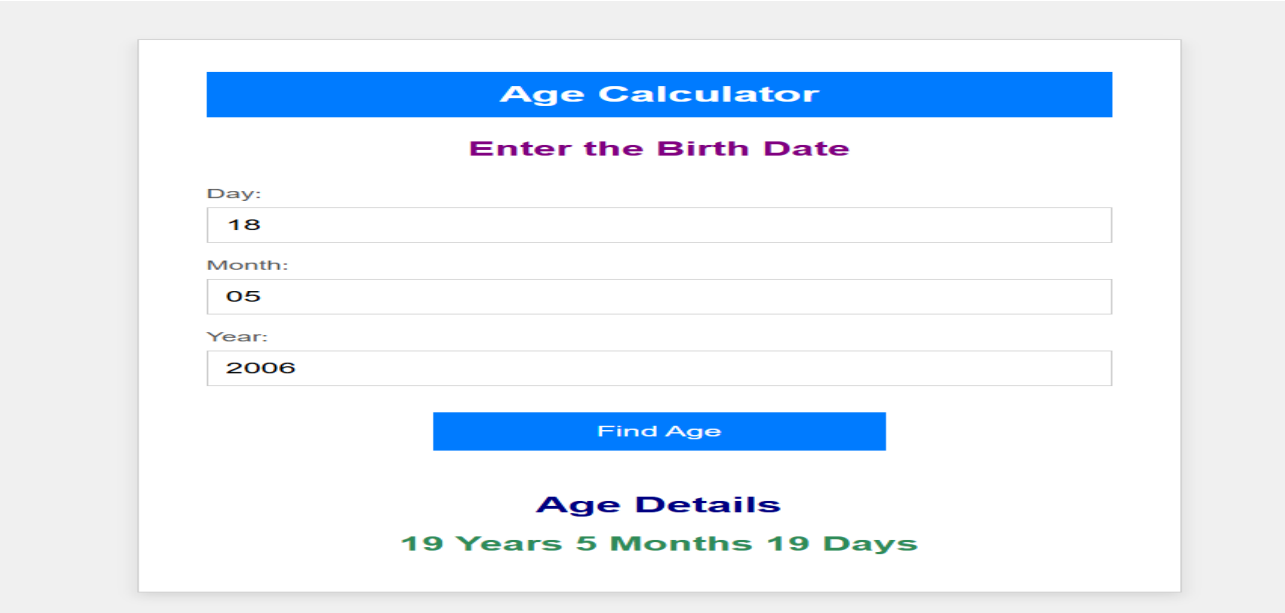
Through this experiment, students gain practical experience in combining HTML structure, CSS styling, and jQuery scripting to build an interactive web application that performs real-world computations efficiently.

Program:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Age Calculator App</title>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>
    <script src="./script.js"></script>
<link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="calculator-container">
        <div class="header-box">Age Calculator</div>
        <div class="input-prompt">Enter the Birth Date</div>
        <div class="input-group">
            <label for="day">Day:</label>
            <input type="number" id="day" value="11" min="1" max="31">
        </div>
        <div class="input-group">
            <label for="month">Month:</label>
```

```
        <input type="number" id="month" value="12" min="1" max="12">
    </div>
    <div class="input-group">
        <label for="year">Year:</label>
        <input type="number" id="year" value="1998" min="1900" max="2099">
    </div>
    <button id="find-age-btn">Find Age</button>
    <div class="result-header">Age Details</div>
    <div id="age-result"></div>
  </div>
</body>
</html>
```

Output:



Result:

Successfully designed and implemented a web page that uses JavaScript to dynamically modify styles and create animations and executed.