

# Assignment #7: jQuery

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## Objective

The goal of this assignment is to practice jQuery — a powerful JavaScript library that simplifies DOM manipulation, event handling, and animations.

By completing this project, the student will:

- Select and manipulate elements using jQuery selectors
- Apply visibility, fade, and slide effects
- Dynamically modify attributes and handle user input
- Create and control animations
- Develop a small interactive mini project

## Part 1: Getting Started with jQuery

### Explanation:

In this part, jQuery was included from a CDN and initialized using the `$(document).ready()` function.

A test message “`jQuery is ready! Version: 3.6.0`” is displayed to confirm that the library works correctly.

The screenshot shows a browser window with the title "jQuery Assignment - Leo Messi (SE-2419)".

**Task 0 - jQuery Setup**  
Open console to see if jQuery is working.  
✓ `jQuery is ready! Version: 3.6.0`

**Task 1 - Selectors and CSS**  
This is ID selector  
This is CLASS selector  
This is TAG selector paragraph  
[Change Text](#) [Change CSS](#)

## Part 2: jQuery Selectors & Effects

### **Explanation:**

This section demonstrates selecting elements by **ID**, **class**, and **tag**.

Their content is changed with `.text()` and `.html()`, and styles are dynamically updated with `.css()`.

Then visibility, fade, and slide methods (`.hide()`, `.show()`, `.toggle()`, `.fadeIn()`, `.fadeOut()`, `.slideUp()`, `.slideDown()`) are applied to make elements interactive and visually responsive.

**Task 2 - Visibility Methods**  
This text can be hidden or shown.  
[Hide](#) [Show](#) [Toggle](#)

**Task 3 - Fade Methods**  
  
[Fade In](#) [Fade Out](#) [Fade Toggle](#)

**Task 4 - Slide Methods**  
[Slide Up](#) [Slide Down](#) [Slide Toggle](#)  
This is sliding panel content.

## **Part 3: DOM Manipulation**

### **Explanation:**

Here, DOM elements are added and removed using `.append()`, `.prepend()`, and `.remove()`.

Image attributes are modified dynamically using `.attr()`, and the link's `href` changes on button click.

In addition, form inputs display the user's name and email live below the form with `.val()` and `.text()` methods.

**Task 5 - Add & Remove Elements**

New Item (prepend)  
New Item (prepend)  
Item 1  
New Item (append)

Add Item (append) Add Item (prepend) Remove Last Item

**Task 6 - Modify Attributes**



Change Image  
Go to Google  
Change Link

**Task 7 - Form Interaction**

Name: Leo Email: Messi@gmail.com

Name: Leo Email: Messi@gmail.com

## Part 4: Animations

### Explanation:

Basic animations are implemented with `.animate()`, moving and resizing a box smoothly.

Sequential animations are chained step-by-step — moving right, down, shrinking, and returning to the start position.

The combined animation merges multiple properties (position, size, opacity) into one smooth animated transition.

**Task 8 - Basic Animation**



Animate Box Reset

**Task 9 - Sequential Animation**



Start Sequence Reset

**Task 10 - Combined Animation**



Start Combined Animation Reset

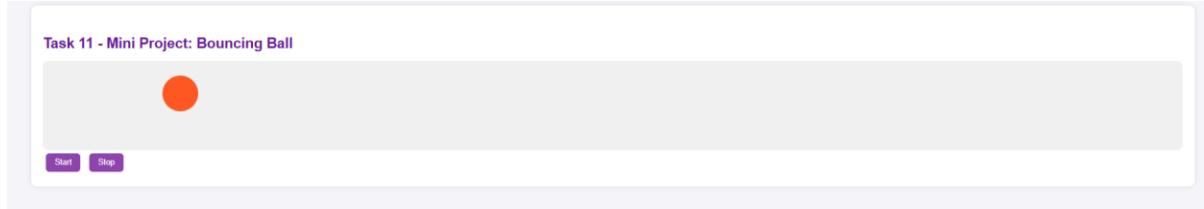
## Part 5: Mini Project — Bouncing Ball

### Explanation:

For the mini project, an interactive **Bouncing Ball** was created using repeated `.animate()` calls.

The ball moves left and right while bouncing up and down, simulating real motion.

Buttons allow the user to start and stop the animation. The project demonstrates continuous animation control using `setInterval()` and `clearInterval()`.



## Summary

Throughout this assignment, I successfully implemented all 11 tasks using jQuery. I learned how to:

- Use jQuery selectors effectively
- Apply effects and animations
- Dynamically change HTML and CSS
- Interact with user input
- Build a fun and functional mini project

This assignment improved my understanding of how jQuery simplifies complex JavaScript operations and helps create interactive, dynamic web pages.