

# “jQuery Assignment”

## 1. What is jQuery?

- :- jQuery is a small, fast and lightweight JavaScript library.
- :- jQuery is platform-independent.
- :- jQuery means "write less do more".
- :- jQuery simplifies AJAX call and DOM manipulation.

## 2. i) How to apply CSS using jQuery?

- :- The `css()` method in jQuery is used to change the style property of the selected element.
- :- This method can be used in different ways.
- :- The `css()` method can be used to get/return the present value of the property for the selected element.
- :- `$(selector).css(property)` OR
- :- `$(selector).css(property, value)` OR
- :- `$(selector).css(property, function(index, currentvalue))`
- :- `$(selector).css({property:value, property:value, ...})`

## ii) How to Add Class and Remove Class in JQuery?

- :- The `addClass()` or `removeClass()` methods are used to add the CSS classes when there is a need to add to our webpage when there is some event listener or to create some kind of effect.

### Adding a class:

```
$('.selector').addClass(class_name);
```

## Removing a class:

`$('.selector').removeClass(class_name);`

### iii) jQuery Animation :

The jQuery `animate()` method is used to create custom animations.

Syntax: `$(selector).animate({params},speed, callback);` The required params parameter defines the CSS properties to be animated.

## 3. How to create slider with animation?

`:- Index.html`

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Image Slider</title>
<style>
.slider-container {
  position: relative;
  width: 600px;
  height: 400px;
  overflow: hidden;
}
.slider-image {
  position: absolute;
  width: 100%;
  height: 100%;
  object-fit: cover;
  transition: opacity 0.5s ease-in-out;
}
</style>
</head>
<body>
<div class="slider-container">
  
  
</div>
</body>
</html>
```

```

</div>
```

```
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
```

```
<script>
```

```
$(document).ready(function() {
```

```
    // Initial settings
```

```
    var currentIndex = 0;
```

```
    var images = $(".slider-image");
```

```
    // Start the slideshow
```

```
    function startSlider() {
```

```
        setInterval(function() {
```

```
            // Fade out the current image
```

```
            $(images[currentIndex]).fadeOut(500);
```

```
            // Move to the next image
```

```
            currentIndex = (currentIndex + 1) % images.length;
```

```
            // Fade in the next image
```

```
            $(images[currentIndex]).fadeIn(500);
```

```
        }, 3000); // Change slide every 3 seconds
```

```
    }
```

```
    // Start the slider
```

```
    startSlider();
```

```
});
```

```
</script>
```

```
</body>
```

```
</html>
```