

## MODULE: 5 (jQuery Basic, Effects & Advance)

### (1) What is JQuery?

Ans -

jQuery is a lightweight, "write less, do more", JavaScript library.

The purpose of jQuery is to make it much easier to use JavaScript on your website.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

The jQuery library contains the following features:

HTML/DOM manipulation

CSS manipulation

HTML event methods

Effects and animations

AJAX

Utilities

### (2) How to Apply CSS Using JQuery, How to Add Class and Remove Class in JQuery, JQuery Animation?

Ans -

With jQuery, it is easy to manipulate the style of elements.

`addClass()` - Adds one or more classes to the selected elements.

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("#div1").addClass("important blue");
  });
});
```

```
</script>
<style>
.important {
  font-weight: bold;
  font-size: xx-large;
}

.blue {
  color: blue;
}
</style>
</head>
<body>

<div id="div1">This is some text.</div>
<div id="div2">This is some text.</div>
<br>

<button>Click me!</button>

</body>
</html>
```

[removeClass\(\)](#) - Removes one or more classes from the selected elements.

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("h1, h2, p").removeClass("blue");
  });
});
</script>
<style>
.blue {
  color: blue;
}
</style>
</head>
```

```
<body>

<h1 class="blue">Heading 1</h1>
<h2 class="blue">Heading 2</h2>

<p class="blue">This is a paragraph.</p>
<p>This is another paragraph.</p>

<button>Click me!</button>

</body>
</html>
```

`css()` - Sets or returns the style attribute

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("h1, h2, p").removeClass("blue");
  });
});
</script>
<style>
.blue {
  color: blue;
}
</style>
</head>
<body>

<h1 class="blue">Heading 1</h1>
<h2 class="blue">Heading 2</h2>

<p class="blue">This is a paragraph.</p>
<p>This is another paragraph.</p>

<button>Click me!</button>

</body>
</html>
```

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

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("div").animate({
      height: 'toggle'
    });
  });
});
</script>
</head>
<body>

<button>Start Animation</button>

<div style="background:#98bf21;height:100px;width:100px;position:absolute;"></div>

</body>
</html>
```

### (3) How to create slider with animation?

Ans -

jQuery has the following slide methods:

```
slideDown()
slideUp()
slideToggle()
```

`slideDown()` :

```
$("#flip").click(function(){
  $("#panel").slideDown();
});
```

`slideUp()` :

```
$("#flip").click(function(){
  $("#panel").slideUp();
});
```

```
});
```

```
slideToggle() :
```

```
$("#flip").click(function(){  
    $("#panel").slideToggle();  
});
```