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.

```html
<!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();
});
```