MODULE: 5 (J Query Basic, Effects & Advance)

Q) What is J Query?

Ans)

* Not actually a language in and of itself.
* Rather, it is large library of Javascript code designed to make access and updates via DOM much simpler than with straight Javascript.
* Everything it does we could do without it, but it does make a lot of what we do easier.

Eg-:

<script>

$(document).ready(function(){

// Rest of our J Query code here will

// execute when “ready” occurs

});</script>

Q) How to Apply CSS Using J Query, How to Add Class and Remove Class in J Query, J Query Animation?

Ans)

* We can use the jQuery .addClass() method to add multiple classes to an element. We simply need to pass a string of class names separated by a space as the argument. To remove multiple classes, we use the .removeClass() method and pass in the same string of class names. Both of these methods can be chained together to add and remove multiple classes at once.
* But before proceeding with that let us have a look at what jQuery offers and how it makes web programming easier over plain JavaScript.

Eg-:

<!DOCTYPE html>

<html>

<head>

<title>Toggle Class</title>

<style>

.red {

color: red;

}

.bold {

font-weight: bold;

}

</style>

</head>

<body>

<div id="myDiv">Hello World</div>

<button id="toggleBtn">Toggle Classes</button>

<script src="https://code.jquery.com/jquery-3.1.0.js"></script>

<script>

$(document).ready(function() {

$('#toggleBtn').click(function() {

$('#myDiv').toggleClass('red bold');

});

});

</script>

</body>

</html>

Q) How to create slider with animation?

Ans)

**HTML Structure**:

First, set up the basic HTML structure for the slider.

<!DOCTYPE html>

<html>

<head>

<title>Image Slider</title>

<link rel="stylesheet" type="text/css" href="styles.css">

</head>

<body>

<div class="slider">

<div class="slides">

<img src="image1.jpg" alt="Image 1">

<img src="image2.jpg" alt="Image 2">

<img src="image3.jpg" alt="Image 3">

</div>

</div>

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

<script src="script.js"></script>

</body>

</html>

CSS Styles (styles.css):

Style the slider and define the animation properties.

.slider {

width: 600px;

overflow: hidden;

margin: 0 auto;

}

.slides {

display: flex;

transition: transform 1s ease-in-out;

}

.slides img {

width: 600px;

height: auto;

}

JavaScript (script.js):

Write the jQuery code to handle the slider animation.

$(document).ready(function() {

var currentSlide = 0;

var slides = $('.slides img');

var slideCount = slides.length;

var slideWidth = $('.slider').width();

$('.slides').css('width', slideCount \* slideWidth);

function nextSlide() {

currentSlide = (currentSlide + 1) % slideCount;

var translateValue = -currentSlide \* slideWidth;

$('.slides').css('transform', 'translateX(' + translateValue + 'px)');

}

function startSlider() {

setInterval(nextSlide, 3000); // Change slide every 3 seconds

}

startSlider();

});

In this example, the JavaScript code uses jQuery to handle the animation. The nextSlide function updates the transform property of the .slides element to shift the images horizontally. The setInterval function is used to call the nextSlide function at a specified interval, creating the automatic sliding effect.

Remember to replace the image sources (image1.jpg, image2.jpg, etc.) with the actual image URLs you want to use.