**MODULE: 5 (JQuery Basic, Effects & Advance)**

**1)**What is JQuery?

ANS.jQuery is a JavaScript library. jQuery greatly simplifies JavaScript programming. jQuery is easy to learn.

**2)** How to Apply CSS Using JQuery, How to Add Class and Remove Class in JQuery,

JQuery Animation?

ANS.Applying CSS Using jQuery:

You can use the css() method in jQuery to apply CSS styles to an HTML element. Here is an example:

javascript

// To set a single CSS property

$('p').css('color', 'red');

// To set multiple CSS properties

$('p').css({

'color': 'red',

'font-size': '16px',

'background-color': 'yellow'

});

Adding and Removing Classes in jQuery:

You can use the addClass() and removeClass() methods to add or remove a CSS class to an HTML element using jQuery. Here's an example:

javascript

// Add a class to an element

$('p').addClass('my-class');

// Remove a class from an element

$('p').removeClass('my-class');

jQuery Animation:

jQuery provides a set of methods for creating animations. Here are some of the most commonly used animation methods:

javascript

// Fade in an element

$('p').fadeIn();

// Fade out an element

$('p').fadeOut();

// Slide an element up

$('p').slideUp();

// Slide an element down

$('p').slideDown();

// Animate an element's properties

$('p').animate({

opacity: 0.5,

width: '50%'

}, 1000);

These methods allow you to animate an element's opacity, width, height, margin, padding, and other properties. You can also specify the duration of the animation and a callback function to be executed when the animation is complete.

**3)** How to create slider with animation?

ANS.HTML Structure:

Create a container for the slider and add a set of slides with images and captions. Here's an example:

php

<div class="slider-container">

<div class="slide">

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

<div class="caption">Caption 1</div>

</div>

<div class="slide">

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

<div class="caption">Caption 2</div>

</div>

<div class="slide">

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

<div class="caption">Caption 3</div>

</div>

</div>

CSS Styling:

Add CSS styles to the container and slides to create the slider layout. Here's an example:

css

.slider-container {

width: 600px;

height: 400px;

position: relative;

overflow: hidden;

}

.slide {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 100%;

display: none;

}

.slide.active {

display: block;

}

.caption {

position: absolute;

bottom: 0;

left: 0;

width: 100%;

background-color: rgba(0, 0, 0, 0.5);

color: #fff;

padding: 10px;

}

JavaScript Code:

Use JavaScript and jQuery to add animation to the slider. Here's an example:

javascript

Copy code

let currentSlide = 0;

const slides = $('.slide');

const captions = $('.caption');

// Display the first slide

$(slides[0]).addClass('active');

$(captions[0]).fadeIn();

// Animate the slide transitions

setInterval(function() {

// Fade out the current slide and caption

$(slides[currentSlide]).fadeOut();

$(captions[currentSlide]).fadeOut();

// Update the current slide index

currentSlide = (currentSlide + 1) % slides.length;

// Fade in the next slide and caption

$(slides[currentSlide]).fadeIn();

$(captions[currentSlide]).fadeIn();

}, 5000);

This code uses the setInterval() method to transition between slides every 5 seconds. It fades out the current slide and caption, updates the current slide index, and fades in the next slide and caption. Finally, it uses the fadeIn() and fadeOut() methods to animate the slide transitions.