**Web Designing Assignment**

**Module – 5 jQuery Basic, Effects & Advanced**

**(Q1) What is jQuery?**

**Answer:**

* jQuery is a fast, small, cross-platform and feature-rich JavaScript library. It is designed to simplify the client-side scripting of HTML. It makes things like HTML document traversal and manipulation, animation, event handling, and AJAX very simple with an easy-to-use API that works on a lot of different type of browsers.

The main purpose of jQuery is to provide an easy way to use JavaScript on your website to make it more interactive and attractive. It is also used to add animation.

**(Q2) How to apply CSS using jQuery, how to add class and remove class in jQuery, jQuery animation?**

**Answer:**

* **CSS using jQuery:**

The css() method sets or returns one or more style properties for the selected elements.

**Syntax:**

$(selector).css(propertyname, value);

**Example:**

Refer Program (File name: cssjQuery.html)

* **Add class using jQuery:**

The addClass() method adds one or more class names to the selected elements.

This method does not remove existing class attributes, it only adds one or more class names to the class attribute.

**Syntax:**

$(selector).addClass(className);

**Example:**

Refer Program (File name: addClassjQuery.html)

* **Remove class using jQuery:**

The removeClass() method removes one or more class names from the selected elements.

**Syntax:**

$(selector).removeClass(className);

**Example:**

Refer Program (File name: removeClassjQuery.html)

* **Animation using jQuery:**

The animate() method performs a custom animation of a set of CSS properties.

This method changes an element from one state to another with CSS styles. The CSS property value is changed gradually, to create an animated effect.

Only numeric values can be animated (like “width: 300px”). String values cannot be animated (like “background-color:red”), except for the strings “show”, “hide” and “toggle”. These values allow hiding and showing the animated element.

**Syntax:**

$(selector).animate({stylePropertyName : ‘value’}, duration, easing, callback);

**Example:**

Refer Program (File name: animationjQuery.html)

**(Q3) How to create slider with animation?**

**Answer:**

* With jQuery we can create a sliding effect on elements.

jQuery has the following slide methods:

* slideDown()
* slideUp()
* slideToggle()
* **jQuery slideDown() Method:**

The jQuery slideDown() method is used to slide down an element.

**Syntax:**

$(selector).slideDown(speed, callback);

The optional speed parameter specifies the duration of the effect. It can take the following values: “slow”, “fast”, or milliseconds.

The optional callback parameter is a function to be executed after the sliding completes.

* **jQuery slideUp() Method:**

The jQuery slideUp() method is used to slide up an element.

**Syntax:**

$(selector).slideUp(speed, callback);

* **jQuery slideToggle() Method:**

The jQuery slideToggle() method toggles between the slideDown() and slideUp() methods.

If the elements have been slide down, slideToggle() will slide them up.

If the elements have been slide up, slideToggle() will slide them down.

**Syntax:**

$(selector).slideToggle(speed, callback);

* **Example:**

Refer Program (File name: sliderjQuery.html)