**Lab**

1. What is jQuery? What are the major benefits compared to JavaScript?

* jQuery is a feature rich JS library. It makes HTML traversal, event handling, animation and Ajax much easier to use by using API which are compatible with most of the browsers.
* Benefits:
  + Simple syntax
  + Built-in features such as animations
  + DOM implementation and manipulation is easier
  + Simple syntax for Ajax and even handling

1. What are JavaScript events? List six events and explain each one.

* Events are actions that happen in the system. These are activities out code can respond to.
  + Click: Initiates when mouse is clicked, or tap is made on the element
  + Load: Initiates once the whole web page and the dependant sources are loaded.
  + Mouseover: Initiates when a mouse is hovered on an element.
  + Submit: Initiates when a form is submitted.
  + Keydown: Initiates when a key is pressed.
  + Resize: Initiates when the window is resized.

1. Complete a web page using either JavaScript or jQuery:
2. Prompt a window to get your full name.
3. Print out a welcome message based on the current time on your browser.

For example:

"Good morning, [your full name]. Welcome to my personal web page”.

A screenshot of a computer

Description automatically generated

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Description automatically generated

Code:

<body>

<h2 id="greet"></h2>

<p id="welcome"></p>

<script>

var fullName = prompt("Please enter your full name:");

var now = new Date();

var hours = now.getHours();

var greeting;

if (hours < 12) {

greeting = "Good morning";

} else if (hours < 18) {

greeting = "Good afternoon";

} else {

greeting = "Good evening";

}

document.getElementById("greet").innerHTML = greeting + ", " + fullName + "!";

document.getElementById("welcome").innerHTML = "Welcome to my web page";

</script>

</body>