jQuery

1. jQuery is a lightweight, "write less, do more", JavaScript library.
2. The purpose of jQuery is to make it much easier to use JavaScript
3. jQuery has plugins for almost any task out there. https://plugins.jquery.com/
   a. Image slider
   b. Date picker
   c. Calendar
   d. Animations
4. Include in the head section of HTML - <script src="jquery-3.3.1.min.js"></script>
5. jQuery CDN
   a. <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
6. jQuery Syntax
   a. $(selector).action()
   b. $("p").hide() - hides all <p> elements.
   c. $(".test").hide() - hides all elements with class="test".
   d. $("#test").hide() - hides the element with id="test".

   ```
   $(document).ready(function(){


       // jQuery methods go here...


   });
   ```
   e.
7. jQuery Selectors
   a. jQuery selectors allow you to select and manipulate HTML element(s).
   b. Element selector - $("p")
   c. Id selector - $("#test")
   d. Class selector - $(".test")
8. Events
   a. click, dblclick, mouseenter, mouseleave
   b. keypress, keydown, keyup
   c. Submit, change, focus, blur
   d. Load, resize, scroll, unload

   ```
   $("p").click(function(){
      // action goes here!!
   });
   ```
   e.
9. Callback function

```
$("button").click(function(){
    $("p").hide("slow", function(){
        alert("The paragraph is now hidden");
    });
});
```
a.
10. Chaining - $("#p1").css("color", "red").slideUp(2000).slideDown(2000);
11. content and attributes
   a. Get
      i. elemt.text()
      ii. elemt.html()
      iii. elmet.val()
   b. Set
      i. $("#test1").text("Hello world!");
      ii. $("#test2").html("Hello world!");
      iii. $("#test3").val("Dolly Duck");
      iv. $("#w3s").attr("href", "https://www.w3schools.com/jquery/");
   c. Add
      i. $("p").append("Some appended text.");
      ii. Prepend
      iii. Before
      iv. After
   d. Remove
      i. $("#div1").remove();
      ii. $("#div1").empty();
   e. $("h1, h2, p").addClass("blue");
   f. $("p").css("background-color");
12. ajax() Method

```
$("button").click(function(){
    $.ajax({url: "demo_test.txt", success: function(result){
        $("#div1").html(result);
    }});
});
```
a.

Assignments:
   1. Create a form and add JQuery validations on submit
      a. Name(Required)
      b. email(Required, should be of type email)
      c. Mobile number(Not required, should only support indian numbers)
      d. date_of_birth(Required, should show date picker)
      e. Show age automatically when they enter date of birth
      f. Country(Dropdown, required) - Use Select2 - https://select2.org/dropdown

2. Using JQuery ajax, fetch data from API - https://jsonplaceholder.typicode.com/posts and show it in a listing page on page load
3. Create an HTML page like https://www.jabong.com/Adidas-Nemeziz-17-4-Tf-White-Football-Shoes-300141923.html?pos=1&cid=AD004SH43FXHINDFAS and implement below features:
   a. Build an HTML upto product info and similar picks
   b. Image slider should be implemented
   c. Option to add to cart and on add show a popup
   d. On hover on the cart it should show cart items
   e. Cart item should be saved to localStorage https://www.w3schools.com/html/html5_webstorage.asp. So that the added item should be persist in the cart hover box.
   f. Add an extra option to delete the item from the cart(delete from localStorage)
   g. On clicking on signin it should popup a login page.
4. Build below features using Jquery
   a. User can add a student details(Store it in the localStorage) - Student Id should be unique.
   b. List existing student details
   c. View detail of a student
   d. Edit a student
   e. Delete a student
   f. https://support.engrade.com/hc/en-us/article_attachments/202818740/3-Add_New_Student-Form.jpg