Learn JavaScript JQuery from scratch

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- JQ is a multi-browser js library

- It is nothing but a bunch of js

- It makes it easy to navigate document and select DOM(body tag, h1 tag, browser windows itself are DOM) elements

- It handles events effectively

- You can use JQ to create plugins on top of the js library

- **Document Ready Handler**: We need to check if the document is ready(after the page is loaded). If we don't do this, jq will execute before the rest of code in which we are trying to use or modify.

```
1  $(document).ready(function(){
2  // all jq code goes here
3  })
```

- **Selecting Elements**: We can grab and select any DOM. This could be divs, list, paras or any other tag and element
  Examples

```
1  // Select all <div> tags
2  $("div")
3
4  // Select div having id="myDiv"
5  $("#myDiv")
6
7  // Select paragraph with class of myClass
8  $("p.myClass")
```

- **JQ Actions**: Once we grab something with a selector, we can do things with it such as call an action

  Examples

```
1   // .addClass() action
2   // Dynamically add class "myClass" to all divs
3   $("div").addClass("myClass");
4
5   // .css() action
6   // Add css style to an element. Add red color where id="myClass"
7   $("#myClass").css("color", "red");
8
9   // Get all html which is inside an element using .html()
10  var myElement = $("#myElement").html()
```

- **JQ Events**: Handle events

```
1   // Click event
2   // for all <a> when clicked, do something
3   $("a").click(function(){
4       // do something
5   })
```

  Some other events

  - Blur
  - Focus
  - Hover
  - Key down
  - Load

- **Show/Hide elements**: We can show hide elements using JQ Examples

```
1   $("#myElement").hide(function(){
2       // do something once the element is hidden
3   })
4
5   $("#myElement").show(function(){
6       // do something once the element is shown
7   })
8
9   $("#myElement").toggle(function(){
10      // do something once the element is shown/hidden
11  })
```

- **Animation**:

```
1   // $("ID").slideDown(SPEED(can be numeric or word), FUNCTION)
2   $("#myElement").slideDown("fast", function(){
3       // do something when slide down is finished
4   })
5
6   $("#myElement").slideUp("slow", function(){
7       // do something when slide up is finished
8   })
9
10  $("#myElement").slideToggle(1000, function(){
11      // do something when slide up/down is finished
12  })
```