jQuery Assignment

1. What is jQuery?

- jQuery is a JavaScript Library.
- jQuery is basically write less & do more.
- The purpose of jQuery is to make it much easier to use JavaScript within a single line of code.

2. How to Apply CSS Using jQuery, How to Add Class and Remove Class in jQuery, jQuery Animation?

CSS using jQuery

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

  Syntax:
  css("*propertyname*","*value*");

  $("p").css("background-color", "yellow");

Add class and remove class in jQuery

- jQuery has several methods for CSS manipulation.

  addClass() - Adds one or more classes to the selected elements.
  removeClass() - Removes one or more classes from the selected elements.

toggleClass() - Toggles between adding/removing classes from the selected elements.

```
$("h1, h2, p").addClass("ClassName");
$("div").addClass("ClassName");

$("div").removeClass("ClassName");

$("div").toggleClass("ClassName");
```

jQuery Animation

- The jQuery animate() method is used to create custom animations.
- 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 animation completes.

- Syntax:

```
$(selector).animate({params},speed,callback);

$("div").animate({left: '250px'});
```

3. How to create slider with animation?

Here is an example of animate slider.

```
<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<style>

* {
```

```css
  box-sizing: border-box;

  margin:0

  padding: 0;

}
body {

font-family: Verdana, sans-serif;

}
.mySlides {display: none}
img {vertical-align: middle;}


/* Slideshow container */
.slideshow-container {

  max-width: 1000px;

  position: relative;

  margin: auto;

}


/* Next & previous buttons */
.prev, .next {

  cursor: pointer;

  position: absolute;

  top: 50%;

  width: auto;

  padding: 16px;

  margin-top: -22px;

  color: white;

  font-weight: bold;

  font-size: 18px;

  transition: 0.6s ease;

  border-radius: 0 3px 3px 0;

  user-select: none;
```

```css
}

/* Position the "next button" to the right */
.next {
  right: 0;
  border-radius: 3px 0 0 3px;
}

/* On hover, add a black background color with a little bit see-through */
.prev:hover, .next:hover {
  background-color: rgba(0,0,0,0.8);
}

/* Caption text */
.text {
  color: #f2f2f2;
  font-size: 15px;
  padding: 8px 12px;
  position: absolute;
  bottom: 8px;
  width: 100%;
  text-align: center;
}

/* Number text (1/3 etc) */
.numbertext {
  color: #f2f2f2;
  font-size: 12px;
  padding: 8px 12px;
  position: absolute;
  top: 0;
```

```css
}

/* The dots/bullets/indicators */
.dot {
  cursor: pointer;
  height: 15px;
  width: 15px;
  margin: 0 2px;
  background-color: #bbb;
  border-radius: 50%;
  display: inline-block;
  transition: background-color 0.6s ease;
}

.active, .dot:hover {
  background-color: #717171;
}

/* Fading animation */
.fade {
  animation-name: fade;
  animation-duration: 1.5s;
}

@keyframes fade {
  from {opacity: .4}
  to {opacity: 1}
}

/* On smaller screens, decrease text size */
@media only screen and (max-width: 300px) {
```

```html
    .prev, .next,.text {font-size: 11px}
}
</style>
</head>
<body>

<div class="slideshow-container">

<div class="mySlides fade">
  <div class="numbertext">1 / 3</div>
  <img src="img_nature_wide.jpg" style="width:100%">
  <div class="text">Caption Text</div>
</div>

<div class="mySlides fade">
  <div class="numbertext">2 / 3</div>
  <img src="img_snow_wide.jpg" style="width:100%">
  <div class="text">Caption Two</div>
</div>

<div class="mySlides fade">
  <div class="numbertext">3 / 3</div>
  <img src="img_mountains_wide.jpg" style="width:100%">
  <div class="text">Caption Three</div>
</div>

<a class="prev" onclick="plusSlides(-1)">❮</a>
<a class="next" onclick="plusSlides(1)">❯</a>

</div>
<br>
```

```html
<div style="text-align:center">
  <span class="dot" onclick="currentSlide(1)"></span>
  <span class="dot" onclick="currentSlide(2)"></span>
  <span class="dot" onclick="currentSlide(3)"></span>
</div>

<script>
let slideIndex = 1;
showSlides(slideIndex);

function plusSlides(n) {
  showSlides(slideIndex += n);
}

function currentSlide(n) {
  showSlides(slideIndex = n);
}

function showSlides(n) {
  let i;
  let slides = document.getElementsByClassName("mySlides");
  let dots = document.getElementsByClassName("dot");
  if (n > slides.length) {slideIndex = 1}
  if (n < 1) {slideIndex = slides.length}
  for (i = 0; i < slides.length; i++) {
    slides[i].style.display = "none";
  }
  for (i = 0; i < dots.length; i++) {
    dots[i].className = dots[i].className.replace(" active", "");
  }
```

```
    slides[slideIndex-1].style.display = "block";

    dots[slideIndex-1].className += " active";

}

</script>



</body>

</html>
```