1. What is jQuery

A. jQuery is a small, light-weight and fast JavaScript library. It is cross-platform and supports different types of browsers. It is also referred as write less do more? because it takes a lot of common tasks that requires many lines of JavaScript code to accomplish, and binds them into methods that can be called with a single line of code whenever needed. It is also very useful to simplify a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

- 2. How to Apply CSS Using JQuery, How to Add Class and Remove Class in Jquery, JQuery Animation?
 - A. 1. AddClass() Adds one more classes to the selected elements.
 - 2. removeClass() Removes one or more classes from the selected elements.
 - 3. toggleClass() Toggles between adding/removing classes from The selected elements.
 - 4. css() sets or returns the style attribute.

```
text-snadow: zpx zpx 4px □#880a0a;
            letter-spacing: 2px;
   </style>
</head>
   <h2>Spider.</h2>
    <button id="btn"> Click</putton>
<script>
   $(document).ready(function () {
        $("#btn").click(function () {
           $("h2").addClass("add", 2000, myCallback);
        });
        function myCallback() {
            setTimeout(function () {
                $("h2").removeClass("add");
            }, 3000);
    });
</html>
```

3. How to create slider with animation?

Α.



```
<div class="slider">
    <img src="https://img.freepik.com/free-vector/abstract-website-banner-with-mode</pre>
    t=st=1691506109~exp=1691506709~hmac=f60e202ef715de2e9b11c38d1574c19462947364772
        alt="Image 1">
    <img src="https://img.freepik.com/free-psd/fashion-sale-social-media-banner-soc</pre>
    t=st=1691506151~exp=1691506751~hmac=06aca9463cbd1c3452f20d6e540f90dab8a27391e7c
        alt="Image 2">
    <img src="https://img.freepik.com/free-photo/</pre>
    magnificent-woman-long-bright-skirt-dancing-studio-carefree-inspired-female-mod
    t=st=1691506360~exp=1691506960~hmac=86679c8e96b1b5ed8537dc187c48f379eb12e02462f
        alt="Image 3">
<script>
    $(document).ready(function () {
        var $slider = $('.slider');
        var $slides = $slider.find('img');
        var currentSlide = 0;
        function showSlide(index) {
            $slides.eq(index).css('opacity', 1);
            $slides.not(':eq(' + index + ')').css('opacity', 0);
        function nextSlide() {
            currentSlide = (currentSlide + 1) % $slides.length;
            showSlide(currentSlide);
        setInterval(nextSlide, 3000); // Change slide every 3 seconds
    });
```

4. Event bubbling tickling example

```
Grandparent
Parent
Child
```

```
<div id="grandparent" style="border: 1px solid ☐ red; padding: 30px;">
    Grandparent
    <div id="parent" style="border: 1px solid □green; padding: 30px;">
        <div id="child" style="border: 1px solid □blue; padding: 30px;">
            Child
       </div>
    </div>
</div>
<script>
    $(document).ready(function () {
        $("#grandparent").on("click", function () {
            alert("Grandparent clicked");
        });
        $("#parent").on("click", function () {
            alert("Parent clicked");
        });
        $("#child").on("click", function () {
            alert("Child clicked");
        });
       $("#child").on("click", function (event) {
            alert("Child clicked");
            event.stopPropagation();
    });
</script>
```