

## 1. What is jQuery and why is it used?

Definition: jQuery is a fast, small, and feature-rich JavaScript library. It simplifies tasks like DOM manipulation, event handling, AJAX calls, and animations.

Example:

```
$('#toggleBtn').click(function() {  
    $('#info').toggle();  
});
```

## 2. What is the difference between \$(document).ready() and window.onload?

Definition:

- \$(document).ready() runs when the DOM is ready.
- window.onload runs when the full page (including images) is loaded.

Example:

```
$(document).ready(function() { alert('DOM is ready!'); });
```

## 3. How do you select elements in jQuery?

Selectors:

```
$('#id'), $('.class'), $('tag')
```

Example: `$('#main').css('color', 'blue');`

## 4. How do you add/remove a class in jQuery?

Use `.addClass()` and `.removeClass()`

Example: `$('.item').click(function() { $(this).toggleClass('highlight'); });`

## 5. How to perform an AJAX request in jQuery?

```
$.ajax({ url: 'submit.php', method: 'POST', data: $('#form').serialize(), success: function(res) {  
    alert(res); } });
```

## 6. What is event delegation?

Attach event to a parent to handle current/future child events.

Example: `$('#list').on('click', 'li', function() { alert($(this).text()); });`

## 7. jQuery animation example

```
$('#box').fadeOut(1000);
```

## 8. What is chaining in jQuery?

```
$('#box').css('color','white').slideUp(1000).slideDown(1000);
```

## 9. Difference between .html(), .text(), .val()

.html() - Get/set HTML

.text() - Get/set plain text

.val() - Get/set form input value

## 10. Stop event propagation

```
$('#child').click(function(e) { e.stopPropagation(); alert('Child clicked'); });
```

## 11. Check if element exists

```
if ($('#el').length > 0) { ... }
```

## 12. Get/Set attributes

```
$('#link').attr('href'); $('#link').attr('target', '_blank');
```

## 13. Iterate with \$.each()

```
$.each(array, function(i, v) { console.log(i + ': ' + v); });
```

## 14. Prevent form submission

```
$('#form').submit(function(e) { e.preventDefault(); });
```

## 15. Toggle menu example

```
$('#menuBtn').click(function() { $('#menu').slideToggle(); });
```