

Web Application Development Lab

Assignment - 6

jQuery & AJAX

1. Using jQuery perform the following operations –
 - a. In a H1 tag write “JavaScript”. Use ID to select the element in jQuery and change the text of the tag to “jQuery”.
 - b. In an h2 tag write “jQuery is a JavaScript Library”. Use class selector in jQuery to select the element and change the text color and background color. Use CSS classes to perform the operations
 - c. Write a paragraph of 500 words. Create the following buttons to perform the tasks using jQuery.
 - i. Hide – to hide the paragraph text
 - ii. Show – to show the paragraph
 - iii. Toggle – to toggle between show and hide
 - iv. Fade Out – to animate the hide operation
 - v. Fade In – to animate the show operation
2. Take a number as input from the user in an HTML input field and check if the number is a prime number or not, using jQuery. Display the message in a paragraph.
3. Consider the following array of objects and display the data in a tabular format.

```
const products = [  
  { pid: 1, name: "Wireless Mouse", category: "Electronics", price: 29.99, rating: 4.5 },  
  { pid: 2, name: "Bluetooth Headphones", category: "Electronics", price: 59.99, rating: 4.7 },  
  { pid: 3, name: "Gaming Keyboard", category: "Electronics", price: 89.99, rating: 4.6 },  
  { pid: 4, name: "Coffee Maker", category: "Home Appliances", price: 49.99, rating: 4.2 },  
  { pid: 5, name: "Air Fryer", category: "Home Appliances", price: 99.99, rating: 4.8 },  
  { pid: 6, name: "Yoga Mat", category: "Fitness", price: 19.99, rating: 4.5 },  
  { pid: 7, name: "Fitness Tracker", category: "Fitness", price: 39.99, rating: 4.4 },  
  { pid: 8, name: "Smartphone Stand", category: "Accessories", price: 15.99, rating: 4.3 },  
  { pid: 9, name: "Portable Charger", category: "Accessories", price: 24.99, rating: 4.6 },  
  { pid: 10, name: "Stylish Backpack", category: "Fashion", price: 39.99, rating: 4.5 }  
];
```

4. Create an unordered list with some product name and price as demonstrated below. Create a form with two fields Product name and price. Once form is submitted add the product to the unordered list with the help of jQuery.

Example Unordered List:

- Mobile (Rs/- 22000)
 - Laptop (Rs/- 88000)
 - Ear Bud (Rs/- 3999)
5. Make an AJAX call to the following API and display the dog details like – image, name, lifespan, and temperament in a table.

API: <https://api.freeapi.app/api/v1/public/dogs>

6. Make an AJAX call to the following API and create a drop down menu on the HTML where country name will be displayed to the user and unicodeFlag will be used as the value.

API: <https://countriesnow.space/api/v0.1/countries/flag/unicode>