

Assignment 5a

Roll No: 71 Batch T14

Aim: Write a JavaScript Program to study arrow functions, DOM Manipulation and CSS Manipulations.

Theory:

DOM (Document Object Model) manipulation involves interacting with the structure of an HTML or XML document using programming techniques. This entails dynamically modifying the content and structure of a web page.

Creating Elements: New HTML elements can be generated programmatically, which is useful for adding content dynamically. This could involve creating new list items in an unordered list or adding paragraphs to a section.

The following was demonstrated in Lab session:

```
para = document.createElement("h1");
const node = document.createTextNode("Holla new element");
para.appendChild(node);
document.getElementById("first").appendChild(para);
```

Deleting Elements: Elements can be removed from the DOM, aiding in cleaning up a webpage. For instance, list items, paragraphs, or entire sections can be deleted based on specific conditions.

```
const noder = document.querySelector(".butn");
document.getElementsByClassName("buttonss")[0].removeChild(noder);
```

Replacing Elements: There are situations where an existing element needs to be replaced with a new one. This facilitates updating content without requiring a complete page reload.

CSS Manipulation:

CSS manipulation involves modifying the styling and layout of elements on a webpage using Cascading Style Sheets.

Background color manipulation is a fundamental CSS technique that allows you to alter the color of an element's background. This is achieved by modifying the background-color property in the element's CSS rule.

Changing the font and inner HTML of an element is another example of CSS manipulation. Font manipulation involves adjusting properties like font-size, font-family, and font-weight to control how text is displayed. Inner HTML manipulation involves changing the content inside an element, such as updating text or inserting new elements.

Similarly other CSS attributes can be modified. However, in CSS manipulation through JavaScript requires **Camel Casing**

Conclusionn :

Demonstrated DOM and CSS manipulations, used arrow functions for the same.

DOM manipulation allows modifying the structure whereas CSS manipulation allows change in styling.