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**MiniProject-8**

DEPARTMENT OF COMPUTER APPLICATION

BCA-2024

SEMESTER-3

FRONT END WEB DEVELOPMENT

Topic: Arithmetic ops using arrow function

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**1. Introduction about Using Technologies**

This project demonstrates the implementation of arithmetic operations using JavaScript arrow functions. HTML is used to provide the basic structure of the page and a heading, while JavaScript performs interactive operations such as addition, subtraction, multiplication, division, and remainder based on user input. The project highlights how arrow functions simplify JavaScript function expressions.

**2. Input Code & Explanation**

<html>

<head>

<title>Arithmetic Operation Arrow</title>

<style>

h1{

text-align: center;

text-decoration: underline;

color: cadetblue;

}

</style>

<body>

<h1>Arithmetic Ops Using Arrow Function</h1>

<script>

let Addition = (a,b) => { return a+b; }

let Subtract = (a,b) => { return a-b; }

let Multiply = (a,b) => { return a\*b; }

let Div = (a,b) => { return a/b; }

let Remainder = (a,b) => { return a%b; }

let a = Number(prompt("Enter First Number"));

let b = Number(prompt("Enter Second Number"));

let ch = prompt("Choose Op : add/sub/mul/div/rem");

let result;

if (ch == "add") result = Addition(a,b);

else if (ch == "sub") result = Subtract(a,b);

else if (ch == "mul") result = Multiply(a,b);

else if (ch == "div") result = Div(a,b);

else if (ch == "rem") result = Remainder(a,b);

else result = "Invalid";

document.writeln("Result: " + result);

</script>

</body>

</head>

</html>

**Explanation**:

* <head> defines the title and CSS for styling.
* <style> centers and colors the heading.
* <h1> displays the page title.
* <script> contains arrow functions for arithmetic operations.
* User is prompted to enter numbers and choose an operation.
* The result is displayed dynamically using document.writeln().

**3. Output & Explanation of Important HTML Tags**

* **<h1>** : Defines the main heading of the page (“Arithmetic Ops Using Arrow Function”).
* **<script>** : Used to embed JavaScript code. Contains the arrow functions and logic.
* **<style>** : Adds CSS styling directly inside the HTML.
* **Arrow Functions** : A simplified JavaScript syntax for writing functions. Used here for arithmetic calculations.

**4. Conclusion**

This project demonstrates how JavaScript arrow functions can be used to perform arithmetic operations interactively in a web browser. It provides practice with function expressions, conditional logic, and user input handling. The project highlights the integration of HTML for structure, CSS for styling, and JavaScript for interactivity.