

Lab 10

01.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Mathematical Operations</title>
```

```
</head>
```

```
<body>
```

```
  <script>
```

```
    // Function to perform addition
```

```
    function addition() {
```

```
      var num1 = parseFloat(prompt("Enter the first number for addition:"));
```

```
      var num2 = parseFloat(prompt("Enter the second number for addition:"));
```

```
      var result = num1 + num2;
```

```
      alert("Addition Result: " + result);
```

```
    }
```

```
    // Function to perform subtraction
```

```
    function subtraction() {
```

```
      var num1 = parseFloat(prompt("Enter the first number for subtraction:"));
```

```
      var num2 = parseFloat(prompt("Enter the second number for subtraction:"));
```

```
      var result = num1 - num2;
```

```
      alert("Subtraction Result: " + result);
```

```
    }
```

```
// Function to perform division
```

```
function division() {
```

```
    var num1 = parseFloat(prompt("Enter the dividend for division:"));
```

```
    var num2 = parseFloat(prompt("Enter the divisor for division:"));
```

```
    if (num2 === 0) {
```

```
        alert("Division by zero is not allowed!");
```

```
    } else {
```

```
        var result = num1 / num2;
```

```
        alert("Division Result: " + result);
```

```
    }
```

```
}
```

```
// Function to perform multiplication
```

```
function multiplication() {
```

```
    var num1 = parseFloat(prompt("Enter the first number for multiplication:"));
```

```
    var num2 = parseFloat(prompt("Enter the second number for multiplication:"));
```

```
    var result = num1 * num2;
```

```
    alert("Multiplication Result: " + result);
```

```
}
```

```
// Call the appropriate function based on user choice
```

```
var operation = prompt("Choose an operation: \n1. Addition \n2. Subtraction \n3. Division \n4. Multiplication");
```

```
if (operation === '1') {
```

```
    addition();
```

```
} else if (operation === '2') {
```

```
        subtraction();
    } else if (operation === '3') {
        division();
    } else if (operation === '4') {
        multiplication();
    } else {
        alert("Invalid choice! Please choose a valid operation.");
    }
</script>
</body>
</html>
```

02.

```
<!DOCTYPE html>
<html>
<head>
    <title>Year of Birth from NIC</title>
</head>
<body>
    <script>
        // Function to get the year of birth from NIC
        function getYearOfBirth() {
            // Prompt the user to enter the NIC number
            var nicNumber = prompt("Enter the student's NIC number:");

            // Check if the NIC number is valid and has the correct format (10 or 12 characters)
```

```
if (nicNumber.length !== 10 && nicNumber.length !== 12) {  
    alert("Invalid NIC number! Please enter a valid NIC number.");  
} else {  
    // Extract the year of birth from the NIC number based on its format  
    var yearOfBirth;  
    if (nicNumber.length === 10) {  
        yearOfBirth = "19" + nicNumber.substring(0, 2);  
    } else {  
        yearOfBirth = nicNumber.substring(0, 4);  
    }  
  
    // Display the year of birth to the user  
    alert("The year of birth is: " + yearOfBirth);  
}  
  
}  
  
// Call the getYearOfBirth() function when the page is loaded  
getYearOfBirth();  
</script>  
</body>  
</html>
```