NAME :- PRIYANSHU BEHERE	ROLL :- B141
REG NO :- 22070553	

## Practical 07

[A] Write a program in JavaScript to perform arithmetic operations. Theory:

**HTML Form:** The HTML <form> element provides a structure for user input. It contains two input fields where users can enter numeric values for calculation. **Input Fields:** Within the form, there are two input fields (<input>) labeled "value of x" and "value of y". These fields allow users to input numerical values.

**Buttons:** There are four buttons labeled "addition", "subtraction", "multiplication", and "division". These buttons trigger JavaScript functions when clicked.

**JavaScript Functions**: Each button is associated with a JavaScript function (add(), sub(), mul(), div()). These functions perform arithmetic operations based on the values entered in the input fields and display the result in the <textarea> element labeled "Answer".

**Parsing Input Values:** Inside each function, the parseInt() or parseFloat() functions are used to convert the input field values from strings to integers or floating-point numbers, allowing mathematical operations to be performed.

**Displaying Results:** After performing the arithmetic operation, the result is displayed in the <textarea> element labeled "Answer" using document.getElementById("box").value. **Error Handling:** In the divide() function, there's a check to prevent division by zero. If the user attempts to divide by zero, an error message is displayed instead of the result.

## code:

```
<button onclick="mul()">multiplication</button>
    <button onclick="div()">division</putton><br><br>
    <label for="box">Answer :</label>
    <textarea id="box" rows="2" cols="15"></textarea>
<script>
     function add() {
       var p1 = parseInt(document.getElementById("fnumber").value);
       var p2 = parseInt(document.getElementById("snumber").value);
        document.getElementById("box").value = p1 + p2;
    function subtract() {
       var p1 = parseInt(document.getElementById("fnumber").value);
       var p2 = parseInt(document.getElementById("snumber").value);
       document.getElementById("box").value = p1 - p2;
    function multiply() {
        var p1 = parseInt(document.getElementById("fnumber").value);
        var p2 = parseInt(document.getElementById("snumber").value);
        document.getElementById("box").value = p1 * p2;
    function divide() {
       var p1 = parseFloat(document.getElementById("fnumber").value);
       var p2 = parseFloat(document.getElementById("snumber").value);
        if (p2 === 0) {
            document.getElementById("box").value = "Cannot divide by
zero";
        } else {
            document.getElementById("box").value = p1 / p2;
</script>
</body>
</html>
```

## Output:

value of x : 1	
value of y : 2	
addition subtraction multiplication divi	sion
Answer:	