

**Practical - 7: Working with number
handling functions,
operators and if condition**

14 WAP to demonstrate number handling functions of javascript. (A)

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Number Handling Functions</title>
</head>

<body>
  <h2>Number Handling Functions in JavaScript</h2>

  <script>
    let num1 = "25.5678";
    let num2 = "ABC";
    let num3 = 123.456789;

    document.write("parseInt('25.5678') = " + parseInt(num1) + "<br>");
    document.write("parseFloat('25.5678') = " + parseFloat(num1) + "<br>");
    document.write("isNaN('ABC') = " + isNaN(num2) + "<br>");
    document.write("isFinite(1000) = " + isFinite(1000) + "<br>");
    document.write("Number('123') = " + Number("123") + "<br>");
    document.write("toFixed(2) = " + num3.toFixed(2) + "<br>");
    document.write("toPrecision(5) = " + num3.toPrecision(5) + "<br>");
  </script>
</body>
</html>

```

15 WAP to demonstrate the use of arithmetic operators using if condition. (A)

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Arithmetic Operators with If Condition</title>
</head>

<body>
  <h2>Arithmetic Operators Using if Condition</h2>

  <script>
    let a = parseFloat(prompt("Enter first number:"));
    let b = parseFloat(prompt("Enter second number:"));
    let op = prompt("Enter operator (+, -, *, /):");

```

```
let result;

if (op == "+"){
    result = a + b;
}
else if (op == "-") {
    result = a - b;
}
else if (op == "*") {
    result = a * b;
}
else if (op == "/") {
    result = a / b;
}
else result = "Invalid operator";

document.write(result);
</script>
</body>
</html>
```

16 WAP to create calculator using switch case. (A)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Calculator Using Switch Case</title>
</head>
<body>
    <h2>Calculator using Switch Case</h2>

    <script>
        let a = parseFloat(prompt("Enter first number:"));
        let b = parseFloat(prompt("Enter second number:"));
        let op = prompt("Enter operator (+, -, *, /):");
        let result;

        switch (op) {
            case '+':
                result = a + b;
                break;
            case '-':
                result = a - b;
                break;
            case '*':
                result = a * b;
                break;
            case '/':
                result = b !== 0 ? a / b : "Cannot divide by zero";
                break;
            default:
```

	<pre> result = "Invalid Operator"; } document.write(result); </script> </body> </html> </pre>
17	<p>WAP to display result of a student whether he/she pass or fail the exam. (Criteria is >39 marks is all 5 subjects.) Also display the grade of the student. (Criteria >90 then grade 'A', >80 then 'B', >70 then 'C', >60 then 'D', >40 then 'E', <40 then 'F').(B)</p>
	<pre> <!DOCTYPE html> <html> <body> <h2>Student Result & Grade</h2> <script> let s1 = Number(prompt("Enter Subject 1 marks:")); let s2 = Number(prompt("Enter Subject 2 marks:")); let s3 = Number(prompt("Enter Subject 3 marks:")); let s4 = Number(prompt("Enter Subject 4 marks:")); let s5 = Number(prompt("Enter Subject 5 marks:")); if (s1 < 40 s2 < 40 s3 < 40 s4 < 40 s5 < 40) { document.write("Result: FAIL
"); document.write("Grade: F"); } else { let avg = (s1 + s2 + s3 + s4 + s5) / 5; let grade = ""; if (avg > 90){ grade = "A"; } else if (avg > 80){ grade = "B"; } else if (avg > 70){ grade = "C" } else if (avg > 60){ grade = "D";} else grade = "E"; document.write("Result: PASS
"); document.write("Average: " + avg + "
"); document.write("Grade: " + grade); } </script> </pre>

	<pre></body> </html></pre>
18	WAP to swap values of 2 variables without using 3rd variable. (B)
	<pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Swap Without Third Variable</title> </head> <body> <h2>Swap Two Numbers Without Third Variable</h2> <script> let a = parseInt(prompt("Enter first number (a):")); let b = parseInt(prompt("Enter second number (b):")); document.write(`Before Swapping: a = \${a}, b = \${b}
`); a = a + b; b = a - b; a = a - b; document.write(`After Swapping: a = \${a}, b = \${b}`); </script> </body> </html></pre>