

**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 (+, -, *, /):");
    </script>
```

```

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:

```

```

    result = "Invalid Operator";
}

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

```

- 17** **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)**

```

<!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("<b>Result:</b> FAIL<br>");
    document.write("<b>Grade:</b> 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("<b>Result:</b> PASS<br>");
    document.write("<b>Average:</b> " + avg + "<br>");
    document.write("<b>Grade:</b> " + grade);
  }
</script>

```

```
</body>
</html>
```

18 WAP to swap values of 2 variables without using 3rd variable. (B)

```
<!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}<br>`);

a = a + b;
b = a - b;
a = a - b;

document.write(`After Swapping: a = ${a}, b = ${b}`);
</script>
</body>
</html>
```