

## Experiment no : 03

**Aim :** Java Script Basic

**(1) (Using var , let , const )write program for addition, subtraction,division and multiplication.**

**Code :**

**Html code :**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <script src="index.js"></script>

    <link rel="stylesheet" href="index.css">

    <title>Grades Of Students</title>

    <style type="text/css">

        body {margin: 30px;}

    </style>

</head>

<body>

    <h1 style="font-size: 25px;">3. LOOPING (While
        Loop , DO-while LOOP , Switch Case) Write a Program to find grade of
        student .</h1>

    <form>

        Enter The Marks : <input type="number" id="marks" name="score" /><br>

        <input type="button" onClick="gradeBy() ; isEmpty()" Value="Check"
```



```
class="check1" style="margin-left: 5px;"/>
```

```
</form>
```

```
<div class="result">
```

```
<p>The Result is :
```

```
<span id = "result" style="color: blue;">Please Enter The Score  
First</span>
```

```
</p>
```

```
</div>
```

```
</body>
```

```
</html>
```

### Javascript Code :

```
function multiplyBy()
```

```
{
```

```
let num1 = document.getElementById("firstNumber").value;
```

```
let num2 = document.getElementById("secondNumber").value;
```

```
document.getElementById("operation").innerHTML = "Multiplication";
```

```
document.getElementById("result").innerHTML = num1 * num2;
```

```
}
```

```
function divideBy()
```

```
{
```

```
var num1 = document.getElementById("firstNumber").value;
```

```
var num2 = document.getElementById("secondNumber").value;
```

```
document.getElementById("operation").innerHTML = "Division";
```

```
document.getElementById("result").innerHTML = num1 / num2;
```

```
}
```



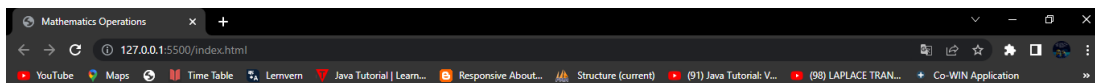
```
function addBy()
```

```
{  
    const num1 = document.getElementById("firstNumber").value;  
    const num2 = document.getElementById("secondNumber").value;  
    document.getElementById("operation").innerHTML = "Addition";  
    document.getElementById("result").innerHTML = +num1 + +num2;  
}
```

```
function subBy()
```

```
{  
    let num1 = document.getElementById("firstNumber").value;  
    let num2 = document.getElementById("secondNumber").value;  
    document.getElementById("operation").innerHTML = "Substraction";  
    document.getElementById("result").innerHTML = num1 - num2;  
}
```

**Output :**



**1. (Using var , let , const )write program for addition, subtraction, division and multiplication**

1st Number :

2nd Number:

The Result for Multiplication is :  
340



(2) (using conditions FOR, IF ELSE, Break, Continue) write a code for Persons age is eligible for Voting or not.

Code :

HTML Code :

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <script src="index.js"></script>

    <title>Election Age Verification</title>

    <style type="text/css">

        body {margin: 30px;}

    </style>

</head>

<body>

    <h1 style="font-size: 25px;">2. (using conditions

        FOR, IF ELSE, Break, Continue) write a code for Persons age is

        eligible for Voting or not.</h1>

    <form>

        Enter The Age : <input type="number" id="age" />

        <input type="button" onClick="ageBy()" Value="Check" />

    </form>

    <p>The Result is : <br>
```



```
<span id = "result"></span>

</p>

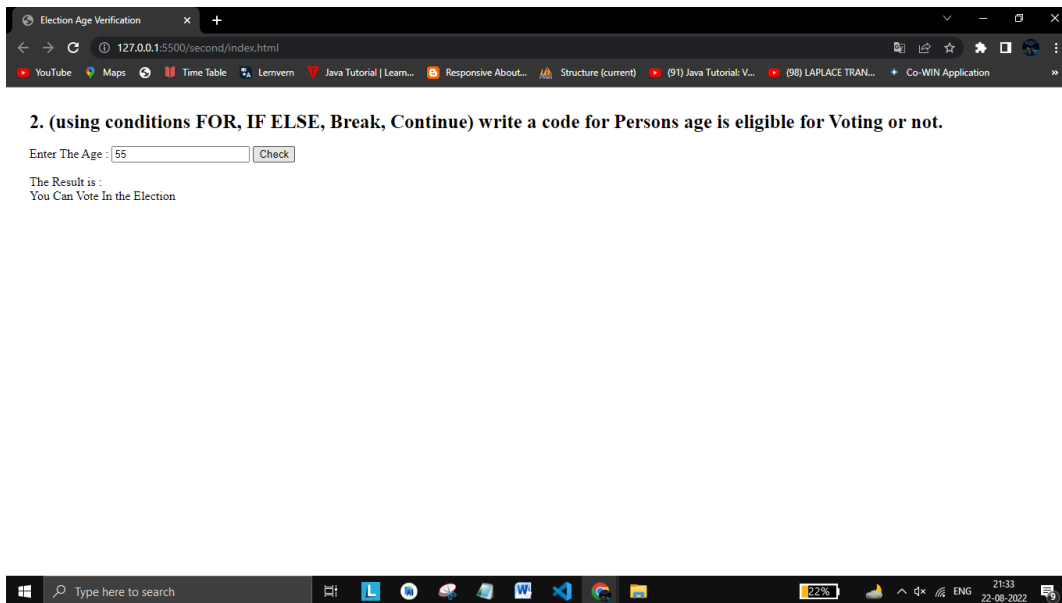
</body>

</html>
```

### Javascript Code :

```
function ageBy()
{
    let age = document.getElementById("age").value;
    if (age >=21) {
        document.getElementById("result").innerHTML = "You Can Vote In the Election";
    }
    else if (age >=15){
        document.getElementById("result").innerHTML = "You are a teenager and cannot vote";
    }
    else if (age >=10){
        document.getElementById("result").innerHTML = "You are too young to vote";
    }
    else {
        document.getElementById("result").innerHTML = "You are still a baby";
    }
}
```

### Output :



**(3) LOOPING (While Loop , DO-while LOOP , Switch Case) Write a Program to find grade of student .**

**Code :**

**HTML Code :**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <script src="index.js"></script>

    <link rel="stylesheet" href="index.css">

    <title>Grades Of Students</title>

    <style type="text/css">

        body {margin: 30px;}

    </style>

</head>

<body>
```

<h1 style="font-size: 25px;">3. LOOPING (While

Loop , DO-while LOOP , Switch Case) Write a Program to find grade of  
student .</h1>

<form>

Enter The Marks : <input type="number" id="marks" name="score" /><br>

<input type="button" onClick="gradeBy() ; isEmpty()" Value="Check"  
class="check1" style="margin-left: 5px;"/>

</form>

<div class="result">

<p>The Result is :

<span id = "result" style="color: blue;">Please Enter The Score First</span>

</p>

</div>

</body>

</html>

**Javascript Code :**

```
function gradeBy()
```

```
{
```

```
let score = document.getElementById("marks").value;
```

```
switch (true)
```

```
{
```

```
case (score <= 100 && score >= 90):
```



Edit with WPS Office

```

        document.getElementById("result").innerHTML = "Your Grade Is A";

        break;

        case (score <= 89 && score >= 80):
document.getElementById("result").innerHTML = "Your Grade Is B";

        break;

        case (score <= 79 && score >= 70):
document.getElementById("result").innerHTML = "Your Grade Is C";

        break;

        case (score <= 69 && score >= 60):
document.getElementById("result").innerHTML = "Your Grade Is D";

        break;

        case (score <= 59 && score >= 50):
document.getElementById("result").innerHTML = "Your Grade Is E";

        break;

        case (score <= 49 && score >= 35):
document.getElementById("result").innerHTML = "Just Pass ";

        break;

        case (score <= 34 && score >= 0): document.getElementById("result").innerHTML
= "You are Failed ";

        break;

        case (score > 100 && score < 0 ): document.getElementById("result").innerHTML
= "Invalid Score";

        break ;

        default:

            return document.getElementById("result").innerHTML = "Invalid Score";

    }

}

```

```
function isEmpty()
```



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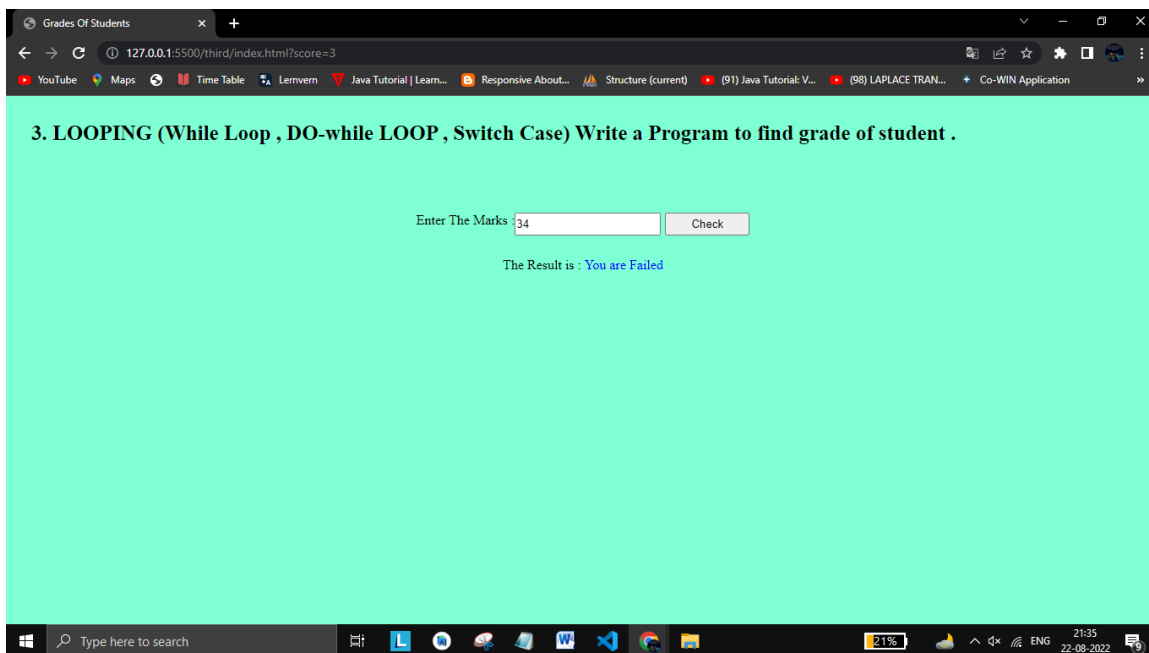
```

{
    if(document.getElementById("marks").value.length == 0)
    {
        alert("Please Enter Marks First !!");

        document.getElementById("result").innerHTML = "Invalid Score";
    }
}

```

**Output :**



**Conclusion :** Therefore we have successfully implemented basics of javascript.