

Practical – 3

AIM: Print prime Numbers up to given value in the input box

Source 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">
  <title>Document</title>
</head>

<body>
  <input type="text" id="id_number">
  <button id="id_press">
    print
  </button>
  <p id="id_print"></p>
  <script src="./prime.js"></script>
</body>

</html>
```

```
let print_prime = function () {
  const N = document.getElementById("id_number").value;
  if (isNaN(N)) {
    document.getElementById("id_number").value = null
    alert("Invalid Input!");
    return;
  }
  let list = []
  let ans = [];
  for (let i = 0; i <= N; i++) {
    list.push(false);
  }
```

```
for (let i = 2; i <= N; i++) {  
    if (list[i] == false) {  
        ans.push(i);  
        let a = i + i;  
        while (a <= N) {  
            list[a] = true;  
            a = a + i;  
        }  
    }  
}  
document.getElementById("id_print").innerHTML = ans.toString();  
}  
  
let but = document.getElementById("id_press");  
but.addEventListener("click", print_prime);
```

Output:

2,3,5,7,11,13,17,19,23,29,31,37,41,43,47

2,3,5,7,11,13,17,19,23,29,31,37,41,43,47,53,59,61,67,71,73,79,83,89,97

AIM: Write Script to reverse the given input string

Source 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">
  <title>Document</title>
</head>

<body>
  <input type="text" id="id_number">
  <button id="id_press">
    print
  </button>
  <p id="id_print"></p>
  <script src="./reverse.js"></script>
</body>

</html>
```

```
let reverseString = function () {
  let textObj = document.getElementById("id_number")
  let text = textObj.value;
  // textObj.value = null;
  let rev = text.split('').reverse().join('');
  document.getElementById("id_print").innerHTML = rev;
}

let button = document.getElementById("id_press");
button.addEventListener("click", reverseString);
```

Output:

tasurahc

emordnilap

AIM: Create Dynamic Multiplication Table using inputs**Source 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">
  <title>Document</title>
  <style>
    table,
    td {
      border: 1px solid black;
      padding: 5px;
    }
  </style>
</head>
<body>
  <input type="text" id="id_number">
  <button id="id_press">
    print
  </button>
  <div id="table">
  </div>
  <script src="./table.js"></script>
</body>
</html>
```

```
console.log("connected");
function table() {
  var rows = document.getElementById("id_number").value;
  var table = document.createElement("table");
  var tableBody = document.createElement("tbody");
  var row, cell, text;

  for (var i = 1; i <= rows; i++) {
    row = document.createElement("tr");

    for (var j = 1; j <= rows; j++) {
      cell = document.createElement("td");
      text = document.createTextNode(i * j);
```

```
        cell.appendChild(text);
        row.appendChild(cell);
    }
    tableBody.appendChild(row);
}
table.appendChild(tableBody);
document.getElementById("table").appendChild(table);
}

let button = document.getElementById("id_press");

button.addEventListener("click", table);
```

Output:

7						print
1	2	3	4	5	6	7
2	4	6	8	10	12	14
3	6	9	12	15	18	21
4	8	12	16	20	24	28
5	10	15	20	25	30	35
6	12	18	24	30	36	42
7	14	21	28	35	42	49

4

1	2	3	4
2	4	6	8
3	6	9	12
4	8	12	16

print

AIM: Find the Age from input date.(Ex. 17 Yrs, 3 Monts,13 Days)

Source 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">
  <title>Document</title>
</head>

<body>
  <input type="text" id="id_number">
  <button id="id_press">
    print
  </button>
  <div id="age">

  </div>
  <script src="./agecalc.js"></script>
</body>

</html>
```

```
console.log("connected");
function calculateAge() {
  var input = document.getElementById("id_number").value;
  var birthdate = new Date(input);
  var today = new Date();
  var ageInMilliseconds = today - birthdate;
  var ageInSeconds = ageInMilliseconds / 1000;
  var ageInMinutes = ageInSeconds / 60;
  var ageInHours = ageInMinutes / 60;
  var ageInDays = ageInHours / 24;
  var ageInMonths = ageInDays / 30.4;
  var ageInYears = ageInMonths / 12;

  var years = Math.floor(ageInYears);
  var months = Math.floor(ageInMonths % 12);
  var days = Math.floor(ageInDays % 30.4);
```

```
    let te = `${years}Yrs,${months} Months,${days} Days`  
    document.getElementById("age").innerHTML = te;  
  }  
  
let obj = document.getElementById("id_press");  
obj.addEventListener("click", calculateAge);
```

Output:

18Yrs,10 Months,24 Days

18Yrs,6 Months,7 Days

AIM: Find the No. of Days between two given dates

Source 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">
  <title>Document</title>
</head>

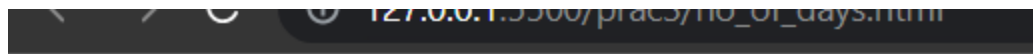
<body>
  <input type="text" id="id_date1">
  <input type="text" id="id_date2">
  <button id="id_calc">print</button>
  <div id="diff">
  </div>
  <script src="./no_of_days.js"></script>
</body>

</html>
```


```
console.log("connected");
function calculateAge() {
  var input = document.getElementById("id_date1").value;
  var input2 = document.getElementById("id_date2").value;
  var date1 = new Date(input);
  var date2 = new Date(input2);
  var timeDiff = Math.abs(date2.getTime() - date1.getTime());
  var days = Math.ceil(timeDiff / (1000 * 3600 * 24));

  let te = `${days} Days`
  document.getElementById("diff").innerHTML = te;
}

let obj = document.getElementById("id_calc");
obj.addEventListener("click", calculateAge);
```

Output:

5 Days



170 Days

Conclusion: From the above programs I have learned the function, Date object and events in Java Script.