

**LAB FILE**

**Web Programming with Python and JavaScript Lab**

**(SEC 035)**

**SUBMITTED BY:**

**ADEELA AZEEZ**

**SUBMIITED TO:**

**DR. TANVI CHAWLA**

**ROLL NUMBER: 2301010282**

**COURSE: BTECH CSE CORE**

**SECTION: E**

**School of Engineering & Technology**

**K. R. MANGALAM UNIVERSITY**

**Sohna, Haryana 122103, India**

**EXPERIMENT 7**

***Experiment 7.1: Write a JavaScript program to print following pattern:***

\*  
\* \*  
\* \* \*  
\* \* \* \*

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Print Pattern</title>

</head>

<body>

    <script>

        let rows = 4; // Number of rows

        let pattern = "";

        for (let i = 1; i <= rows; i++) {

            for (let j = 1; j <= i; j++) {

                pattern += "\* ";

            }

            pattern += "<br>";

        }

        document.write(pattern);

    </script>

</body>

</html>

**Output:**

****

***Experiment 7.2: Write a JavaScript program to print following pattern:***

1  
1 2  
1 2 3  
1 2 3 4

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Print Pattern</title>

</head>

<body>

    <script>

        let rows = 4; // Number of rows

        let pattern = "";

        for (let i = 1; i <= rows; i++) {

            for (let j = 1; j <= i; j++) {

                pattern += " "+j;

            }

            pattern += "<br>";

        }

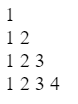
        document.write(pattern);

    </script>

</body>

</html>

**Output:**

****

***Experiment 7.3: Write a JavaScript program to print following pattern:***

         \*  
       \* \* \*  
     \* \* \* \* \*  
   \* \* \* \* \* \* \*  
\* \* \* \* \* \* \* \* \*

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Print Pyramid Pattern</title>

</head>

<body>

    <script>

        let rows = 5;

        let pattern = "";

        for (let i = 1; i <= rows; i++) {

            for (let j = 0; j < rows - i; j++) {

                pattern += "&nbsp;&nbsp;"; // Spaces for alignment

            }

            for (let k = 0; k < 2 \* i - 1; k++) {

                pattern += " \* ";

            }

            pattern += "<br>";

        }

        document.write(pattern);

    </script>

</body>

</html>

**Output:**

****

***Experiment 7.4: Write a JavaScript program to print following pattern:***

         1  
       1 1 1  
     1 1 1 1 1  
   1 1 1 1 1 1 1  
1 1 1 1 1 1 1 1 1

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Print Pyramid Pattern</title>

</head>

<body>

    <script>

        let rows = 5;

        let pattern = "";

        for (let i = 1; i <= rows; i++) {

            for (let j = 0; j < rows - i; j++) {

                pattern += "&nbsp;&nbsp;"; // Spaces for alignment

            }

            for (let k = 0; k < 2 \* i - 1; k++) {

                pattern += " 1 ";

            }

            pattern += "<br>";

        }

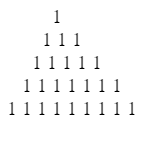
        document.write(pattern);

    </script>

</body>

</html>

**Output:**

****