**JavaScrit**

1. **Basic**
   1. **Output:**

 document.write("Hi Limon");

        alert("Hi programmer");

        console.log("Hello java");

1. **Keyword, Datatype, Comment** 
   1. **Keyword:**
   2. **Datatype : string, number, Boolean, objects**
   3. **Comment:** 
      1. **Single line: //------------**
      2. **Multiple line: /\*-----------\*/**
2. **Variable(Camel case)**
   1. **Letter, number, underscore, dollersign**
   2. **Not allow: keyword, starting number, not support space**
   3. **JavaScript case sensitive**
3. **Library Function**
   1. **toFixed, toPricision, toString, parseFloat, Number, length, charAt, toUpperCase, slice**
4. **Operator**
   1. **Arithmetic Operator: +, - ,\* ,/, %,\*\*, ++,--**
   2. **Assignment Operator: +=, -=, \*=, /=**
   3. **Relational Operator: >, >=, <,<=,===,!=,!==**
   4. **Logical Operator: &&,||,!**
5. **Control Statement**
   1. **Conditional Control Statement**
      1. **If,else,Switch**
   2. **Loop Control Statement**
      1. **For loop, do/while loop(break/continue**
      2. **Ternery Operator**

let result = number > 0 ? "positive" : number < 0 ? "negative" : "zero";

        document.write(result);

1. **Traditoional Function** 
   1. **function**

    function add(x, y) {

            let result = x + y

            document.write(result)

        }

        add(4, 5);

 function add(x, y) {

            let result = x + y

            return result;

        }

       document.write(add(4, 5));

* 1. **IFFes**

        (function add(a, b) {

            let result = a + b

            document.write(a + b);

        })(5, 9)

* 1. **Function Expression**

        let one = function add(a, b) {

            let result = a + b

            document.write(a + b);

        }

        one(5,5);

* 1. **Array**

let myArray = new Array(3);

        myArray[0] = "Limon";

        myArray[1] = "Sayfullah";

        myArray[2] = "Tonmoy";

        document.write(myArray);

        document.write(myArray[2]);

 let myArray2 = ["LIMON", ["RAKIB", "SABBIR", "MAHMUD"]]

        document.write(myArray2);

        myArray2.push("Kona");

        document.write(myArray2);

        myArray2.pop();

        document.write(myArray2);

 let size = parseInt(prompt("Enter array size"));

        let array = new Array(size);

        let sum = 0;

        for (let i = 0; i < size; i++) {

            array[i] = parseInt(prompt("Enter " + i + " Number"));

            sum = sum + array[i];

        }

        document.write(sum);

myArray2.push(); //last theke remove krbe

        myArray2.pop(); //last a add krbe

        myArray2.shift(); //first theke remove krbe

        myArray2.unshift(); //first a add krbe

        myArray2.splice(2, 0, "Limona", "Janina"); //2 ta add hbe.0 ta dlt hbe

        myArray2.slice(1, 3); // slice kore new array te rakhtte hbe

        myArray2.sort()

        myArray2.reverse()

* 1. **2d Array**

 function highsetRun2(run) {

            let highestRuner = run[0][0];

            let highestRun = run[0][1];

            for (let row = 1; row < run.length; row++) {

                if (highestRun < run[row][1]) {

                    highestRun = run[row][1];

                    highestRuner = run[row][0];

                }

            }

            return highestRuner;

        }

        let reslult = highsetRun2(run);

        document.write(reslult);

* 1. Object

        let student = {

            name: "Limon",

            age: 30,

            hobby: "Gardening"

        }

        document.write(student.hobby);

        function Student(name, age, hobby) {

            this.name = name,

                this.age = age,

                this.hobby = hobby

            this.display = function () {

                document.write("Name: " + this.name + "<br>");

                document.write("Age: " + this.age + "<br>");

                document.write("Hobby: " + this.hobby + "<br>");

            }

        }

        let student1 = new Student("Akash", 20, "Coding");

        document.write(student1.display());

* 1. Gfdgh

let wonTime = 0;

        let lostTime = 0

        for (let i = 1; i <= 5; i++) {

            let number = parseInt(prompt("Pls enter a number from 0 to 5"));

            let randomNumber = Math.floor(Math.random() \* 6);

            if (number == randomNumber) {

                console.log("You are win");

                wonTime++

            }

            else {

                console.log("You are lost" + "Number was :" + randomNumber);

                lostTime++

            }

        }

        document.write("Total won time: " + wonTime);

        document.write("Total lost time: " + lostTime);

* 1. Fghfg

let date=new Date();

        let month=date.getMonth(); //aro ase

        document.write(month);

1. DOM
   1. GetElementByID,Class,Tag

<h1 id="heading1">Hi... I am Limon</h1>

        <h1 id="heading2">Hi... I am Heading 2</h1>

        document.getElementById("heading1").innerHTML = "Hello";

        document.getElementsByTagName("h1")[1].innerHTML = "Bye";

* 1. QuerySelectorAll
  2. OnClick()
  3. Fgjfg
  4. j