**LAB EXERCISE:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Document</title>

</head>

<body>

<script>

//let hello = "";

//var a = prompt("Enter your name: ");

//hello = () => {

//document.write("hello " + a + "</br>");

//};

//hello();

//let base = prompt("Enter base of triangle");

//let height = prompt("Enter height of triangle");

//let area = (height, base) => (height \* base) / 2;

//document.write("the area is: ", area(base, height) + "</br>");

//let base = prompt("Enter the number");

//num = (base) => (base % 2 == 0 ? "even" : "odd");

//document.write("the number is " + num(base) + "</br>");

//let arr = [1, 2, 3, 4, 5, 9, 18 ];

//largest = (arr) => {

//let i;

//let max = arr[0];

//for (i = 0; i < arr.length; i++) {

//if (arr[i] > max) max = arr[i];

//}

//return max;

//};

//document.write("The largest number is: ", largest(arr) + "</br>");

//let fact = prompt("Enter a number : ")

//factorial = (fact) => {

//result = 1

//for (i = 1 ; i<= fact ; i++){

//result = result \* i

//}

//return result

//}

//document.write("Factorial of " + fact + " is " + factorial(fact) + "<br/>")

/\*class Accholder{

constructor (accnum , name , age , balance) {

this.accnum = accnum

this.name = name

this.age = age

this.balance = balance

}

display(){

document.write("Your Account Number : " + this.accnum + "<br/>")

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

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

document.write("Your Balance : ₹" + this.balance + "<br/>")

document.write("---------------------------------- <br/>")

}

}

emp1 = new Accholder("11111" , "Durva Kadam" , 17 , 10000)

emp1.display()

emp2 = new Accholder("222222" , "Abhay Kadam" , 10 , 64455)

emp2.display()

\*/

/\*class Calculator{

constructor(length , width){

this.length = length;

this.width = width;

}

}

class RectArea extends Calculator{

constructor(length , width , radius){

super(length , width);

this.radius = radius;

}

rectdisplay(){

document.write("Area of Rectangle : " + this.length \* this.width + "<br>")

}

}

class CircleArea extends RectArea{

constructor(length , width , radius){

super(length , width , radius);

}

circledisplay(){

document.write("Area of cicle : " + Math.PI\*this.radius\*this.radius + "<br>")

}

}

let r1 = new RectArea(5 , 10 , 30)

r1.rectdisplay()

let c1 = new CircleArea(7 , 10 , 20)

c1.circledisplay()

\*/

function Animal(name, age) {

this.name = name;

this.age = age;

}

Animal.prototype.speak = function() {

document.write(`${this.name} makes a

sound.<br>`);

};

const Dog = new Animal('Dog', 3);

Dog.speak = function() {

document.write(`${this.name}

barks.<br>`);

};

const Cat = new Animal('Cat', 2);

Cat.speak = function() {

document.write(`${this.name}

meows.<br>`);

};

Dog.speak();

Cat.speak();

const Bulldog = Object.create(Dog);

Bulldog.name = 'Rottweiler';

Bulldog.speak();

</script>

</body>

</html>