**JAVASCRIPT OBJECTS**

1. Make a rectangle class that stores a width and a height. Make a few instances and print out the properties.

Code-

<!DOCTYPE html>

<html>

    <head>

        <meta charset="utf-8">

    </head>

    <body>

        <script>

            class Rect{

                constructor(width,height) {

                    this.width=width;

                    this.height=height;

                    this.getArea=function() {

                        document.write("Area=" +(this.width\*this.height));

                    }

                }

            }

            var r1=new Rect(10,5);

            var r2=new Rect(60,40);

            document.write("r1 width="+r1.width+"<br> r1.height="+r1.height);

            document.write("r2 width="+r2.width+"<br> r2.height="+r2.height);

            r1.getArea();

            r2.getArea();

        </script>

    </body>

</html>

1. Add a getArea method.

Code-

<!DOCTYPE html>

<html>

    <head>

        <meta charset="utf-8">

    </head>

    <body>

        <script>

            class Rect{

                constructor(width,height) {

                    this.width=width;

                    this.height=height;

                }

            }

            var r1=new Rect(10,5);

            var r2=new Rect(60,40);

            document.write("r1 width="+r1.width+"<br> r1.height="+r1.height);

            document.write("r2 width="+r2.width+"<br> r2.height="+r2.height);

            Rect.prototype.getArea=function() {

                document.write("Area="+(this.height\*this.width));

            }

            r1.getArea();

            r2.getArea();

        </script>

    </body>

</html>

4,5-

Code-

<!DOCTYPE html>

<html>

    <head>

        <meta charset="utf-8">

    </head>

    <body>

        <script>

            class Person {}

            var p1= new Person();

            p1.firstname="Tinku";

            p1.lastname="Senorita";

            document.write("p1="+p1.firstname+" "+p1.lastname);

        </script>

    </body>

</html>

6.

Code-

<!DOCTYPE html>

<html>

    <head>

        <meta charset="utf-8">

    </head>

    <body>

        <script>

            class Person {}

            var string='({"firstname":"Tinku","lastname":"Senorita"})';

            var obj=eval(string);

            document.write(obj.firstname+" "+obj.lastname);

        </script>

    </body>

</html>

7.

Code-

<!DOCTYPE html>

<html>

    <head>

        <meta charset="utf-8">

    </head>

    <body>

        <script>

            class Person {}

            var string='{"firstname":"Tinku","lastname":"Senorita"}';

            var obj=JSON.parse(string);

            document.write(obj.firstname+" "+obj.lastname);

        </script>

    </body>

</html>

8.Write a js program to create object of person with fields as follows-,9,10

Code-<!DOCTYPE html>

<html>

    <head>

        <meta charset="utf-8">

    </head>

    <body>

        <script>

            function person(fname,lname,age,skill,dateofbirth,address,married,profession){

                this.fname=fname;

                this.lname=lname;

                this.age=age;

                this.skill=skill;

                this.dateofbirth=dateofbirth;

                this.address=address;

                this.married=married;

                this.profession=profession;

            }

            var person1=new person("nikhil", "goud",22,['c'],"24/10/1997",{city:"hyberabad",pincode:"521185"},"false","sr analyst");

            var person2=new person("harish", "chinna",21,['html'],"8/6/1997",{city:"ammeerpet",pincode:"500038"},"false","jr analyst");

            print=function(){

                console.log(person1);

                console.log(person2);

            }();

            amitabh=new person("amitabh", "bachan",22,['c'],"24/10/1997",{city:"hyberabad",pincode:"521185"},"false","sr analyst")

            abhishek=new person("abhishek",21,['html'],"8/6/1997","false","jr analyst")

            var abhishek=Object.create(amitabh);

            aaradhya=new person("aaradhya",20,['python'],"10/5/2000","fresher")

            var aaradhya=Object.create(amitabh,abhishek);

            print=function(){

                console.log(amitabh);

                console.log(abhishek.lname);

                console.log(abhishek.address);

                console.log(aaradhya);

            }();

        </script>

    </body>

</html>

11.

Code-

<!DOCTYPE html>

<html>

    <head>

        <meta charset="utf-8">

    </head>

    <body>

        <script>

            class BankAccount{

                constructor(accountNumber, accountHolderName, accountBalance)

                {

                    this.accountNumber = accountNumber;

                    this.accountHolderName = accountHolderName;

                    this.accountBalance = accountBalance;

                    this.getCurrentBalance= function()

                    {

                        document.write(this.accountBalance);

                    };

                }

            }

            class SavingsAccount extends BankAccount{

                constructor(accountNumber, accountHolderName, accountBalance, isSalary){

                    super(accountNumber, accountHolderName, accountBalance);

                    this.isSalary = isSalary;

                    this.withdraw =function(amount)

                    {

                        this.accountBalance -= amount;

                        if(accountBalance == 0)

                        return -1;

                    };

                }

            }

            class CurrentAccount extends BankAccount {

                constructor(accountNumber, accountHolderName, accountBalance, odLimit){

                    super(accountNumber, accountHolderName, accountBalance);

                    this.odLimit = odLimit;

                    this.withdraw = function(amount)

                    {

                        this.accountBalance -= amount;

                        if(accountBalance < 0)

                        return -1;

                    };

                }

            }

            var s1 = new SavingsAccount(50201024, "Changu Vadapavwala", 25000, 1);

            s1.withdraw(5000);

            s1.getCurrentBalance();

        </script>

    </body>

</html>