1)

class Rectangle {

    constructor(height, width) {

      this.height = height;

      this.width = width;

    }

  }

  // creating few instances or objects

  const rect1 = new Rectangle(20, 10);

  const rect2 = new Rectangle(13, 14);

  const rect3 = new Rectangle(40, 100);

  // accessing values of each object using '.' (dot) operator.

  console.log("Rect1 height:" + rect1.height);

  console.log("Rect1 width:" + rect1.width);

  console.log("Rect2 height:" + rect2.height);

  console.log("Rect2 width:" + rect2.width);

  console.log("Rect3 height:" + rect3.height);

  console.log("Rect3 width:" + rect3.width);

  // assigning new value

  rect3.height = 19;

  rect3.width = 20;

  console.log("Updated Rect3 height: " + rect3.height);

  console.log("Updated Rect3 width: " + rect3.width);

2)

class Rectangle {

    constructor(height, width) {

      this.height = height;

      this.width = width;

    }

    // adding new method to class to calculate area of rectangle

    get getArea() {

      return this.height \* this.width;

    }

  }

  const rect1 = new Rectangle(20, 10);

  // calling method

  console.log(rect1.getArea);

3)

class Rectangle {

    constructor(height, width) {

      this.height = height;

      this.width = width;

    }

    get getArea() {

      return this.height \* this.width;

    }

  }

  const rect1 = new Rectangle(4, 5);

  // they have spelled height wrongly. That's why there will be no change in original property.

  rect1.hieght = 50;

  // and output will be 20 only...

  console.log(rect1.getArea);

4)

var fullName = {

    firstName: "Shreya",

    lastName: "Doe",

  };

  console.log(

    "Before initializing data the values are " +

      fullName.firstName +

      " " +

      fullName.lastName

  );

  fullName.lastName = "Ghoshal";

  console.log(

    "After initializing data the values are " +

      fullName.firstName +

      " " +

      fullName.lastName

  );

5)

var fullName = {

    firstName: "Shreya",

    lastName: "Doe",

  };

  console.log(

    "Before initializing data the values are " +

      fullName.firstName +

      " " +

      fullName.lastName

  );

  fullName.lastName = "Ghoshal";

  console.log(

    "After initializing data the values are " +

      fullName.firstName +

      " " +

      fullName.lastName

  );

  console.log(

    "Accessing the middle name Before assigning " + fullName.middleName

  );

  fullName.middleName = "Sam";

  console.log("Accessing the middle name After assigning " + fullName.middleName);

6)

var str = '({"fname" : "Priyanka", "lname" : "Ghoshal"})';

var obj = eval(str);

obj.lname = "Dhoni";

alert(obj.fname + " , " + obj.lname);

7)

var str = '{"fname" : "Virat", "lname" : "Kohli"}';

//var obj = eval(str);

var obj=JSON.parse(str);

obj.lname="Dhoni"

alert(obj.fname + " , " + obj.lname);

8)

var str = '{"fname" : "Virat", "lname" : "Kohli"}';

//var obj = eval(str);

var obj=JSON.parse(str);

obj.lname="Dhoni"

document.write(obj.fname + " " + obj.lname);

var per = {

    fname:"Anil",

    lname:"Marukurti",

    age:21,

    skills:["Python", "JavaScript", "Java" , "Html", "CSS"],

    address: {

        city:"vizag",

        pincode:535501,

    },

    dateOfBirth:"30-nov-1999",

    married: false,

    profession:"working"

};

//constructor//

// 1)

console.log(person1);

var skillsArray = ["java",".net","C"];

var Person= function(fname,lname,age,Array, DOB,address, married,profession){

    this.fname = fname;

    this.lname = lname;

    this.age = age;

    this.skills=skillsArray;

    this.dateOfBirth = DOB;

    this.address=address;

    this.married = married;

    this.profession= profession;

};

var nikhilAddress={

    city:"hyderabad",

    pincode:521185,

};

var harishAddress={

    city:"Ameerpet",

    pincode:500038,

};

nikhilArray = ["C"];

harishArray = ["HTML"];

var person1 = new Person("Nikhil","goud",22,nikhilArray,"24/10/1996",nikhilAddress, false, "sr-analyst");

console.log(person1)

var person2 = new Person("harish","chinna", 21, harishArray,"08/06/1997",harishAddress,false,"jr-analyst");

console.log(person2)

//2)

var amithab = new Person("amithab","bachan",22,nikhilArray,"24/10/1996",nikhilAddress, false, "sr-analyst");

console.log(amithab);

var abhisheik = new Person("abjisheik",amithab.lname,21,harishArray,"08/06/1997",amithab.address, false, "jr-analyst");

console.log(abhisheik);

// 3)

var Aaradhya = new Person("aaradhya", amithab.lname, abhisheik.age, abhisheik.nikhilAddress, "18/02/2000", abhisheik.address, true, "devloper");

console.log(Aaradhya);