1. Write a JavaScript program to list the properties of a JavaScript object. Sample object: var student = { name : "David Rayy", sclass : "VI", rollno : 12 }; Sample Output: name,sclass,rollno

function printt(student)

{

for (let keys in student)

console.log(keys);

}

var student = { name : "David Rayy", sclass : "VI", rollno : 12 }

printt(student);

2. Write a JavaScript program to delete the rollno property from the following object. Also print the object before or after deleting the property. Sample object: var student = { name : "David Rayy", sclass : "VI", rollno : 12 };

function printt(student)

{

delete student.rollno;

return student;

}

var student = { name : "David Rayy", sclass : "VI", rollno : 12 };

console.log(printt(student));

3. Write a JavaScript program to get the length of a JavaScript object. Sample object : var student = { name : "David Rayy", sclass : "VI", rollno : 12 };

function printt(student)

{

let a=Object.keys(student).length;

return a;

}

var student = { name : "David Rayy", sclass : "VI", rollno : 12 };

console.log(printt(student));  
  
4. Write a JavaScript program to display the reading status (i.e. display book name, author name and reading status) of the following books. var library = [ { author: 'Bill Gates', title: 'The Road Ahead', readingStatus: true }, { author: 'Steve Jobs', title: 'Walter Isaacson', readingStatus: true }, { author: 'Suzanne Collins', title: 'Mockingjay: The Final Book of The Hunger Games', readingStatus: false }];

var library = [

{

title: 'Bill Gates',

author: 'The Road Ahead',

readingStatus: true

},

{

title: 'Steve Jobs',

author: 'Walter Isaacson',

readingStatus: true

},

{

title: 'Mockingjay: The Final Book of The Hunger Games',

author: 'Suzanne Collins',

readingStatus: false

}];

for (var i = 0; i < library.length; i++)

{

var book = "'" + library[i].title + "'" + ' by ' + library[i].author + ".";

if (library[i].readingStatus) {

console.log("Already read " + book);

} else

{

console.log("You still need to read " + book);

}

}  
5. Write a JavaScript program to get the volume of a Cylinder with four decimal places using object classes. Volume of a cylinder : V = πr2h where r is the radius and h is the height of the cylinder. Try To Attempt : Difficult Level Increased

function Cylinder(cyl\_height, cyl\_diameter) {

this.cyl\_height = cyl\_height;

this.cyl\_diameter = cyl\_diameter;

}

Cylinder.prototype.Volume = function () {

var radius = this.cyl\_diameter / 2;

return this.cyl\_height \* 3.14 \* radius \* radius;

};

var cyl = new Cylinder(7, 4);

console.log('volume =', cyl.Volume().toFixed(4));  
  
6. Write a JavaScript program to sort an array of JavaScript objects. Sample Object : var library = [ { title: 'The Road Ahead', author: 'Bill Gates', libraryID: 1254 }, { title: 'Walter Isaacson', author: 'Steve Jobs', libraryID: 4264 }, { title: 'Mockingjay: The Final Book of The Hunger Games', author: 'Suzanne Collins', libraryID: 3245 }]; Expected Output: [[object Object] { author: "Walter Isaacson", libraryID: 4264, title: "Steve Jobs" }, [object Object] { author: "Suzanne Collins", libraryID: 3245, title: "Mockingjay: The Final Book of The Hunger Games" }, [object Object] { author: "The Road Ahead", libraryID: 1254, title: "Bill Gates" }]