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

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 };

3. Write a JavaScript program to get the length of an JavaScript object.

Sample object :

var student = {

name : "David Rayy",

sclass : "VI",

rollno : 12 };

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

}];

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.

6. Write a Bubble Sort algorithm in JavaScript.

Note : Bubble sort is a simple sorting algorithm that works by repeatedly stepping through the list to be sorted,

Sample Data : [6,4,0, 3,-2,1]

Expected Output : [-2, 0, 1, 3, 4, 6]

7. Write a JavaScript program which returns a subset of a string.

Sample Data : dog

Expected Output : ["d", "do", "dog", "o", "og", "g"]

8. Write a JavaScript program to create a Clock.

Note : The output will come every second.

Expected Console Output :

"14:37:42"

"14:37:43"

"14:37:44"

"14:37:45"

"14:37:46"

"14:37:47"

9. Write a JavaScript program to calculate the area and perimeter of a circle.

Note : Create two methods to calculate the area and perimeter. The radius of the circle will be supplied by the user.

10. 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 :

[{

author: "Walter Isaacson",

libraryID: 4264,

title: "Steve Jobs"

}, {

author: "Suzanne Collins",

libraryID: 3245,

title: "Mockingjay: The Final Book of The Hunger Games"

}, {

author: "The Road Ahead",

libraryID: 1254,

title: "Bill Gates"

}]

11. Write a JavaScript function to print all the methods in an JavaScript object.

Test Data :

console.log(all\_properties(Array));

["length", "name", "arguments", "caller", "prototype", "isArray", "observe", "unobserve"]

12. Write a JavaScript function to parse an URL.