**#boilar plate (input taking)**

**function runProgram(input){**

**}**

**if (process.env.USER === "") {**

**runProgram(``);**

**} else {**

**process.stdin.resume();**

**process.stdin.setEncoding("ascii");**

**let read = "";**

**process.stdin.on("data", function (input) {**

**read += input;**

**});**

**process.stdin.on("end", function () {**

**read = read.replace(/\n$/, "");**

**read = read.replace(/\n$/, "");**

**runProgram(read);**

**});**

**process.on("SIGINT", function () {**

**read = read.replace(/\n$/, "");**

**runProgram(read);**

**process.exit(0);**

**});**

**}**

**Problem 1 :**

var square={

side:20,

area:function(){

var x=this.side\*this.side

console.log("Area of Square =",x)

},

perimeter: function(){

console.log("Perimeter of Square =",4\*this.side)

}

**}**

**(Area)**

square.area()

(perimeter)

square.perimeter()

**Problem :2**

**Part: 1**

var names = ["Suman", "Rajat", "Abhinav", "Lakhan", "Santosh"]

var subjects = ["Science", "History", "Maths", "English", "Hindi"]

var marks = [75, 60, 85, 20, 30]

var data =[];

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

{

var obj={}

obj.name=names[i]

obj.subject=subjects[i]

obj.mark=marks[i]

data.push(obj)

}

console.log(data)

**part :2**

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

console.log(data[i].name)

}

**Part:3**

var max=-Infinity;

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

{

if(max<data[i].mark)

{

max=data[i].mark

}

}

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

{

if(max==data[i].mark){

console.log(data[i])

}

}

**Problem : 3;**

// var arr=["aman","amit"]

// var str="hi"

// Sayhi(arr,str)

function Sayhi(arr,str)

{

var arr2=[]

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

{

var x=str+" "+arr[i]

arr2.push(x)

}

console.log(arr2)

}

var array = ["Nrupul", "Prateek", "Yogesh", "Aman", "Albert"]

var str = "hey"

Sayhi(array,str)