

**TASK: 1**

```

1 min(4,8,1,3);
2 max(4,6,5,3,2);
3
4 function min(){
5     var small = arguments[0];
6     for(var i = 1; i < arguments.length; i++){
7         if(small > arguments[i]){
8             small = arguments[i]
9         }
10    }
11    console.log("The minimum = "+small)
12 }
13
14
15 function max(){
16     var temp = arguments[0];
17     for(var i = 1; i < arguments.length; i++){
18         if(temp < arguments[i]){
19             temp = arguments[i]
20         }
21     }
22     console.log("The maximum = "+temp)
23 }
24

```

Program input

**Output**

The minimum = 1  
The maximum = 6

[Execution complete with exit code 0]

**TASK: 2**

```

1 console.log("The sum = "+add(2,3));
2 console.log("The difference = "+sub(5,6,8,4));
3 console.log("The product = "+multiply(3,5,4,6))
4 console.log("The answer = "+divide(6,4,3,6));
5
6 function add(a,b,c){
7     a = typeof a !== 'undefined' ? a : 0;
8     b = typeof b !== 'undefined' ? b : 1;
9     c = typeof c !== 'undefined' ? c : 2;
10    return a + b + c;
11 }
12
13 function sub(a=3,b=5,c=6,d=1){
14     return a-b-c-d;
15 }
16
17 function multiply(...num){
18     let ans=1;
19     for(let i=0; i<num.length; i++){
20         ans *= num[i];
21     }
22     return ans;
23 }
24
25 function divide(){
26     var result = arguments[0];
27     for(let i = 1; i < arguments.length; i++){
28         result /= arguments[i] ;
29     }
30 }

```

Program input

**Output**

The sum = 7  
The difference = -13  
The product = 360  
The answer = 0.08333333333333333

[Execution complete with exit code 0]



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**TASK: 3**

```

1 var res = {};
2 res['round'] = [99.89];
3 res['abs'] = [-67.9, 89.7];
4 res['ceil'] = [23.67];
5 res['floor'] = [6.9];
6 res['min'] = [8,9,6,4];
7 res['max'] = [4,6,8,9];
8
9 console.log(SolveThis(res))
10
11 function SolveThis(arg){
12     arg.round = Math.round(arg.round)
13     arg.abs = Math.abs(arg.abs[0],arg.abs[1])
14     arg.ceil = Math.ceil(arg.ceil)
15     arg.floor = Math.floor(arg.floor)
16     arg.min = Math.min(arg.min[0],arg.min[1],
17     arg.max = Math.max(arg.max[0], arg.max[1],
18     return arg;
19 }

```

Program input

## Output

```
{ round: 100, abs: 67.9, ceil: 24,
  floor: 6, min: 4, max: 9 }
```

[Execution complete with exit code 0]

### TASK: 4

```

1 profile = (name, last) => name + " " + last;
2 console.log("Name: "+profile('Kulsoom','Khurshid'));
3
4 ThisIsANumber = num => num * 45;
5 console.log("The answer= "+ThisIsANumber(2));
6
7 retrieveAnEven = (myarray) => {
8     let num = [];
9     for (let j of myarray) {
10         if (j % 2 === 0) {
11             num.push(j);
12         }
13     }
14     return num;
15 }
16 console.log("Even numbers: "+retrieveAnEven([2,4,6,8,10,12,14,16,18,20]));
17

```

Program input

## Output

Name: Kulsoom Khurshid

The answer= 90

Even numbers: 2,4,6

[Execution complete with exit code 0]