

Exercise Solutions – Objects

Exercise 1: Printing keys of the object

```
//var arr = [1,2,3,4,5];  
var arr = 'hello';  
for(var temp of arr)  
{  
    console.log(temp);  
}  
//return msg;
```

Example 2: Printing properties of the object

```
var company = {  
    name : "Code and Compile",  
    founder : "Rajvir Singh",  
    yearOfEstablishment : 2018  
};  
  
for(var temp in company)  
{  
    console.log(company[temp]);  
}  
//return msg;
```

Exercise 3: Use a for in loop to print all its properties and their values

```
var company = {  
    name : "Code and Compile",  
    founder : "Rajvir Singh",  
    yearOfEstablishment : 2018  
};  
  
for(var temp in company)  
{  
    console.log(temp + ':' + company[temp]);  
}  
  
//return msg;
```

Exercise 4: Create an object with numeric properties. Calculate the sum of all the values using a for in loop.

```
var sum = 0;  
var courses = {  
    nodered : 49,  
    opcua : 39,  
    mysql : 49,  
    mqtt : 49,  
    javascript_essentials: 49  
};  
  
for(var temp in courses)  
{
```

```
    sum += courses[temp];

}

console.log('Total courses cost: ' + sum);

msg.payload = 'Total courses cost: ' + sum;

return msg;
```

Exercise 5: Create an object and use a for in loop to filter out properties with only 'number' values.

```
var sum = 0;

var company = {
    name : "Code and Compile",
    founder : "Rajvir Singh",
    yearOfEstablishment : '2018',
    nodered : 49,
    opcua : 39,
    mysql : 49,
    mqtt : 49,
    javascript_essentials: 49
};

for(var temp in company)
{
    if (typeof company[temp] === 'number' )
    {
        console.log(temp + ':' + company[temp]);
        sum += company[temp];
    }
}
```

```
    }  
  }  
  console.log('Total courses cost: ' + sum);  
  msg.payload = 'Total courses cost: ' + sum + '€';  
  return msg;
```