

JavaScript Objects - Practice Code

Steps to see the output:

- Open VS code.
- Select New File in the opened folder...
- Save the file in the appropriate folder/ create the folder and save the file with extension.
- Copy and Add the below given JS code in the file.
- View the file in the browser, by right click on the file name in the left pane.
- View of file in browser.

Problem Statement 1: 2D Arrays to Objects

Write a javascript file to convert a two-dimensional array into an object in JavaScript, print it on the console window of your browser?

Output:-

```
▼ Object i

Neha: "Ice Cream"

Rahul: "Pizza"

Ram: "Burger"

Shyam: "Spring Rolls"

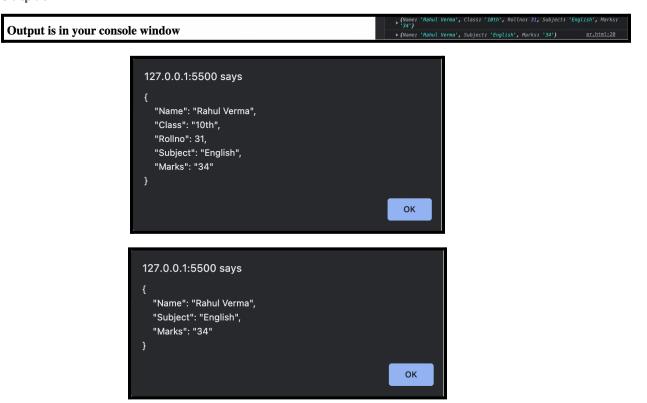
▶ [[Prototype]]: Object
```

Problem Statement 2: Delete Property

Write a javascript file to create a student object of any 5 properties and then delete the 2 properties from the student object. Also console/alert the object output before or after deleting the property.



Output:-



Problem Statement 3: Swap Values and Keys

Write a javascript file to get a copy of the object where the keys have become the values and the values the keys.

Output:-

```
Output is in your console window

Vobject 

Age: "33"

Name: "Virat"

Sports: "Cricket"

[Prototype]: Object

Vobject 

33: "Age"

Gricket: "Sports"

Virat: "Name"
```



```
127.0.0.1:5500 says

{
    "Name": "Virat",
    "Sports": "Cricket",
    "Age": "33"
}

OK

127.0.0.1:5500 says

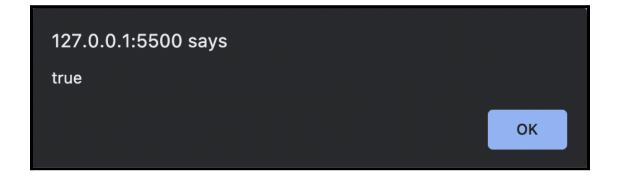
{
    "33": "Age",
    "Virat": "Name",
    "Cricket": "Sports"
}
```

Problem Statement 4: Search for a given property (key)

Write a javascript file to create a new object and then check whether an object contains any given property.

Output:-







Solutions

Problem Statement 1:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>JS Objects Practice Code </title>
</head>
<body>
   <h1>Output is in your console window</h1>
<script type="text/javascript">
   function arr2obj(arr) {
      // Create an empty object
      let obj = {};
      arr.forEach((v) => {
            // Extract the key and the value
            let key = v[0];
            let value = v[1];
            // Add the key and value to the new object
            obj[key] = value;
      });
      // Return the object
      return obj;
console.log(
      arr2obj([
            ["Ram", "Burger"],
            ["Shyam", "Spring Rolls"], ["Rahul", "Pizza"],
            ["Neha", "Ice Cream"],
      ])
);
</script>
</body>
</html>
```

Problem Statement 2:



```
var student = {
       Name : "Rahul Verma",
       Class : "10th",
       Rollno: 31,
       Subject : 'English',
       Marks : '34'
      };
     console.log(student);
     alert(JSON.stringify(student, null, 4));
     delete student.Class;
     delete student.Rollno;
     console.log(student);
     alert(JSON.stringify(student, null, 4));
</script>
</body>
</html>
```

Problem Statement 3:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>JS Objects Practice Code </title>
</head>
<body>
   <h1>Output is in your console window</h1>
<script type="text/javascript">
   function invert_key_value(obj) {
       var result = {};
       var keys = keys(obj);
       for (var i = 0, length = keys.length; i < length; i++) {
          result[obj[keys[i]]] = keys[i];
       return result;
    function keys(obj)
       if (!isObject(obj)) return [];
       if (Object.keys) return Object.keys(obj);
       var keys = [];
       for (var key in obj) if ( .has(obj, key)) keys.push(key);
       return keys;
   function isObject(obj)
       var type = typeof obj;
        return type === 'function' || type === 'object' && !!obj;
   let obj = {Name: "Virat", Sports: "Cricket", Age: "33"};
   console.log(obj);
   alert(JSON.stringify(obj,null,4));
   let newobj=invert key value(obj);
```



```
alert(JSON.stringify(newobj,null,4));
  console.log(newobj);
</script>
</body>
</html>
```

Problem Statement 4:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>JS Objects Practice Code </title>
</head>
<body>
   <h1>Output is in your console window</h1>
<script type="text/javascript">
   function hasKey(obj, key) {
       return obj != null && hasOwnProperty.call(obj, key);
   let obj={Virat: "33", Rohit: "35", Dhoni: "41"};
   alert(hasKey(obj, "Virat"));
   console.log(hasKey(obj,"Virat"));
</script>
</body>
</html>
```