```
1.
const arr = [1, 2, 3, 4, 5, 6];
for (let i = 0; i < arr.length; i += 1) {
    if (arr[i] % 2 == 0) {
        document.write(arr[i]);
    }
}

2.
count = 0
result = 0
for (let i = 0; i < s.length; i += 1) {
    if (s[i] == 0) {
        count = 0;
    } else {
        count += 1;
        result = Math.max(result, count);
    }
}
document.write(result);

3.
const arr = [1, 2, 2, 3];
arrSum = (arr.length * (arr.length + 1))/ 2;
document.write(arrSum - arr.reduce((a, b) => a + b, 0))

4.
function validateForm() {
  var x = document.forms["myForm"]["name"].value;
  if (x == "") {
    alert("Name must be filled out");
    return false;
  }
var y = document.forms["myForm"]["checkme"].value;
  if (!x) {
    alert("Plese check the box);
    return false;
  }
}
```

5.

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width,
    initial-scale=1.0">
        <title>Document</title>
        <style>
            .div {
            padding: 5px;
            border: 1px solid grey;
            }
        </style>
    </head>
    <body>
        <div class="div">Javascript Developer</div>
    </body>
</html>
```

6.

```css
.div {
        width: 100px;
        height: 100px;
        position: absolute;
        top:0;
        bottom: 0;
        left: 0;
        right: 0;
        margin: auto;
}
```

7.

```javascript
<script type="text/javascript">function loadXMLDoc() {
    var xmlhttp = new XMLHttpRequest();

    xmlhttp.onreadystatechange = function() {
        if (xmlhttp.readyState == XMLHttpRequest.DONE) {     //
XMLHttpRequest.DONE == 4
            if (xmlhttp.status == 200) {
                document.getElementById("myDiv").innerHTML =
xmlhttp.responseText;
            }
            else if (xmlhttp.status == 400) {
                alert('There was an error 400');
            }
            else {
                alert('something else other than 200 was returned');
            }
        }
    };
    xmlhttp.open("GET", "www.example.com/api/get/1", true);
    xmlhttp.send();
}
</script>
```

8.
```javascript
var obj = [
    {'id' : 4, 'name' : 'abc'},
    {'id' : 10, 'name' : 'ab2'},
    {'id' : 5, 'name' : 'abc3'},
    {'id' : 6, 'name' : 'abc5'}
];
document.write(obj.sort((a,b) => (a.id > b.id) ? 1 : ((b.id > a.id) ? -1 : 0)));
```