

```
1.
const birthday = new Date('August 19, 2000');
const day1 = birthday.getDay();
// Sunday - Saturday : 0 - 6

console.log(day1);
```

```
2.
const arr = [45, 2, 13, 5, 14, 1, 20];
const squareAndRootSum = (arr = []) => {

    const res = arr.map(el => {

        if(el % 2 === 0){
            return el * el;
        }else{
            return Math.sqrt(el);
        }
    });
    const sum = res.reduce((acc, val) => acc + val);
    return sum;
};
console.log(squareAndRootSum(arr));
```

```
3.
function test_prime(n)
{

    if (n===1)
    {
        return false;
    }
    else if(n === 2)
    {
        return true;
    }else
    {
        for(var x = 2; x < n; x++)
```

```
{
    if(n % x === 0)
    {
        return false;
    }
}
return true;
}
}

console.log(test_prime(37));
```

4.

```
function myFunction() {
    window.open("https://www.example.com", "_blank",
    "toolbar=yes,scrollbars=yes,resizable=yes,top=500,left=500,width=800,height=600");
}
```

5.

```
document.getElementById("demo").innerHTML =
navigator.userAgent;
```

6.

```
function getLocation() {
    if (navigator.geolocation) {
        navigator.geolocation.getCurrentPosition(showPosition);
    } else {
        x.innerHTML = "Geolocation is not supported by this browser.";
    }
}
```

```
}

function showPosition(position) {
    x.innerHTML = "Latitude: " + position.coords.latitude +
    "<br>Longitude: " + position.coords.longitude;
}
```

7.

a.

```
document.onclick = myClickHandler;
```

```
function myClickHandler() {
    alert("All orders require minimum two weeks notice due to the nature of
event and wedding products");
}
```

b.

```
function doCheck() {
    var keyCode = (event.which) ? event.which : event.keyCode;
    if ((keyCode == 8) || (keyCode == 46) || (keyCode == 32))
        alert('The column is readonly and is non-editable');
    event.returnValue = false;
}
```

c.

```
let deomImage = document.getElementById("demo");
deomImage.addEventListener( "mouseover", function () {
    document.demo.style = "height:200px; width:200px";
}
```

8.

```
var btn = document.getElementById("mybtn");  
btn.value = 'my value'; // will just add a hidden value  
btn.innerHTML = 'my text';
```

9.

```
<form action="example/submit.html">  
  Name: <input type="text" name="name"><br>  
  Email: <input type="text" name="email"><br>  
  Password: <input type="password" name="password"><br>  
  Confirm_Password: <input type="password" name="confirmpassword"><br>  
  <button type="submit">Log in</button>  
</form>  
<script>  
  var form = document.querySelector("form");  
  console.log(form.elements[1].type);  
  
  console.log(form.elements.password.type);  
  
  console.log(form.elements.name.form == form);  
</script>
```

10.

```
<button onclick="myFunction()">Try it</button>  
  
<div id="myDIV">  
  highlight.  
</div>  
  
<script>  
function myFunction() {  
  var element = document.getElementById("myDIV");
```

```
    element.classList.add("mystyle");
}
</script>
```

11.

```
<ul id="userprofile">
</ul>
```

```
<script>
```

```
    function createMenuItem(name) {
        let li = document.createElement('li');
        li.textContent = name;
        return li;
    }
```

```
    const userprofile = document.querySelector('#userprofile');
```

```
    userprofile.appendChild(createMenuItem('Profile'));
    userprofile.appendChild(createMenuItem('Settings'));
    userprofile.appendChild(createMenuItem('Log out'));
```

12.

```
<button type="button" id="mybtn">Click here</button>
```

```
<script>
```

```
    var btn = document.getElementById("myBtn");
    btn.setAttribute("class", "click-btn");
    btn.setAttribute("enable", " ");
```

```
</script>
```

13.

```
<p class="my-paragraph" > Welcome to freeCodeCamp! </p>
<p id="my-paragraph" > Welcome to freeCodeCamp! </p>
```

```
// CSS
```

```
.my-paragraph {
  color: skyblue;
}
```

```
#my-paragraph {
  color: skyblue;
}
```

14

```
<script src="https://api.example.com/data"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $.get("demo_test.asp", function(data, status){
      alert("Data: " + data + "\nStatus: " + status);
    });
  });
});
</script>
</head>
<body>

<button>click</button>
```

15.

```
<script src="https://api.example.com/submit"></script>
<script>
$(document).ready(function(){
    $("button").click(function(){
        $.post("demo_test_post.asp",
            {
                name: "john",
                email: "john@gmail.com"
            },
            function(data,status){
                alert("Data: " + data + "\nStatus: " + email);
            });
    });
});
</script>
</head>
<body>

<button>click</button>

</body>
```