

## createElement & remove

```
<script>
```

```
  let head1 = document.createElement('h1');
```

```
  head1.innerHTML = "This is Heading 1";
```

```
  document.body.prepend(head1)
```

```
  let div1 = document.createElement('div');
```

```
  div1.innerHTML = "This is div1 tag";
```

```
  document.body.append(div1)
```

```
</script>
```

```
.....
```

```
div1.remove() //will remove the node
```

# Event onchange/ oninput

- <!DOCTYPE html>
- <!DOCTYPE html>
- <html>
- <head> </head>
- <body>
- <form>
- <h1>Login Form</h1>
- <div id="msg"></div><br>
- <input type="email" id="em" placeholder="Enter Email" /><br /><br />
- <input type="password" id="pw" placeholder="Enter Password" /><br /><br />
- <input type="submit" value="Submit" />
- </form>
- <script>
- em.oninput = function () { //try with onchange
- msg.innerHTML = em.value;
- };
- </script>
- </body>
- </html>

# Events – cut, copy and paste

```
• <!DOCTYPE html>
• <html>
• <head> </head>
• <body>
• <h1>Cut, Copy and Paste</h1>
• <textarea id="t1" rows="5" cols="20">Apple, Orange, Banana</textarea>
• <textarea id="t2" rows="5" cols="20"></textarea>
• <script>
•   t2.onpaste = function (event) {
•     let t2Str = t2.value;
•     let pasteStr = event.clipboardData.getData("text/plain");
•     if (t2Str.includes(pasteStr))
•     {
•       alert("Already Exists");
•       return false;
•     }
•   };
•   t1.oncut = t1.oncopy = function (event) {
•     let t2Str = t2.value;
•     let pasteStr = document.getSelection();
•     if (t2Str.includes(pasteStr) && t2Str!=""){
•       alert("Already Exists");
•     }
•     //alert(event.type + "-" + document.getSelection());
•   };
• </script>
• </body>
• </html>
```

# Target Event

- `<p onclick="alert(event.target.innerHTML)">This is a dummy text</p>`
- `<p onclick="alert(event.target.nodeName)">This is a dummy text</p>`
- `<p onclick="alert(event.target.tagName)">This is a dummy text</p>`
- `<input type="text" onchange="alert(event.target.value)" /><br /><br /><br />`
- `<input type="text" oninput="lbl.innerHTML=event.target.value" /><br /><br />`
- `<label id="lbl"></label>`

# Mouse Events

```
• <!DOCTYPE html>
• <html>
• <head> </head>
• <body>
• <input type="text" id="t1">
• <textarea id="t2" rows="10" cols="20"></textarea>
• <script>
•   t1.addEventListener('mouseover',()=>{t2.append('mouseover\n')})
•   t1.addEventListener('mousedown',()=>{t2.append('mousedown\n')})
•   t1.addEventListener('mouseup',()=>{t2.append('mouseup\n')})
•   t1.addEventListener('click',()=>{t2.append('click\n')})
•   t1.addEventListener('dblclick',()=>{t2.append('doubleclick\n')})
•   t1.addEventListener('contextmenu',()=>{t2.append('rightclick\n')})
•   t1.addEventListener('mouseout',()=>{t2.append('mouseout\n')})
•   t1.addEventListener('mousemove',()=>{t2.append(event.clientX+","+event.clientY+"\n")})
•   t1.addEventListener('click',(e)=>{
•     if (e.altKey) t2.append('Alt+click\n')
•   })
•   t1.addEventListener('click',(e)=>{
•     if (e.shiftKey) t2.append('Shift+click\n')
•   })
•   t1.addEventListener('click',(e)=>{
•     if (e.ctrlKey) t2.append('Ctrl+click\n')
•   })
• </script>
• </body>
• </html>
```

# JavaScript Cookies

```
document.cookie = "name=John;expires=Thu, 18 Oct 2022 12:00:00  
UTC";  
document.cookie = "name=;expires=Thu, 18 Oct 2021 12:00:00 UTC";  
let n = document.cookie.split("=");  
alert(document.cookie);  
alert(`Hello ${n[1]}`);
```

# Remember me Cookies

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>Document</title>
</head>
<body>
<h1>Login Screen</h1>
<form>
<p><input type="text" id="user" placeholder="Enter Username" /></p>
<p>
<input
  type="password"
  autocomplete=""
  id="pass"
  placeholder="Enter Password"
/>
</p>
<p>
<input type="checkbox" id="chk" onclick="toggleCookie()" />Remember Me
</p>
<p><button>Login</button></p>
</form>
<script>

const toggleCookie = () => {
  let date = new Date();
  if (chk.checked) {
    //save user and pass cookie
    date.setTime(date.getTime() + 1000000);
    // let expdays = d.getTime() + 1000000;
    // console.log(expdays);
    document.cookie = `name=${user.value};expires=${date}`;
    document.cookie = `pass=${pass.value};expires=${date}`;
  } else {
    date.setTime(date.getTime() - 1000000);
    document.cookie = `name=null;expires=${date}`;
    document.cookie = `pass=null;expires=${date}`;
    user.value = "";
    pass.value = "";
    chk.disabled = true
  }
};
let r = "";
const getCookie = (name) => {
  let arr = document.cookie;
  let ck = arr.split(";");
  ck.forEach((element) => {
    if (element.indexOf(name) === 0) {
      r = element.substring(name.length + 1);
    }
  });
  return r;
};
let usr = getCookie("name");
let pwd = getCookie("pass");
console.log(usr, pwd);
console.log(document.cookie);
if (usr != "null" && pwd != "null") {
  user.value = usr;
  pass.value = pwd;
  chk.checked = true;
}
else {
  chk.disabled = true
}

user.onchange = () => {
  if (user.value != "") {
    chk.disabled = false
  }
}
</script>
</body>
</html>
```

# JavaScript Object Notation (JSON)

## **JSON – Data**

```
{  
  "emp_id":1021,  
  "name":"John",  
  "location":"LA"  
}
```

## **JavaScript Object**

```
employee =  
{  
  "emp_id":1021,  
  "name":"John",  
  "location":"LA"  
}
```



# JSON.stringify

```
student = {name:"john",age:20,pass:true}
```

```
student = JSON.stringify(student)
```

```
console.log(student)
```

expected output:

```
{"name":"john","age":20,"pass":true}
```

# JSON.parse

```
let student = '{"name":"john", "age":20}'  
console.log(student.name)  
let obj = JSON.parse(student)  
console.log(obj.name)
```