



Class notes

Owner

Sugash

Subject

web programming ▾

```
/form-validation.html
<html>
  <head>
    <style>
      span{color:red}
    </style>
    <script>
      function validateUsername(){ //event handler
        var uname = document.getElementById("uname").value
        if(uname.length == 0 || uname.length == ""){
          document.getElementById("s1").innerHTML = ("Username is mandatory!!!")
          return false;
        }
      }
    </script>
  </head>
</html>
```

```
    }  
    else if(uname.length < 5 || uname.length > 10){  
        document.getElementById("s1").innerHTML =("Username length not in  
range!!")  
        return false  
    }  
    return true  
}
```

```
function validatePassword(){ //event handler  
    var pass = document.getElementById("pass").value  
    if(pass.length == 0 || pass.length == ""){  
        document.getElementById("s2").innerHTML =("Password is mandatory!!")  
        return false  
    }  
    else if(pass.length < 5){  
        document.getElementById("s2").innerHTML =("Password length cannot be  
less than 5 chars!!")  
        return false  
    }  
    return true  
}
```

```
function validate(){  
    if(validateUsername() && validatePassword())  
        return true  
    else return false
```

```
    }  
  
    </script>  
  
</head>  
  
<body>  
  
    <form onsubmit="return validate()">  
  
        Username : <input id="uname"><span id="s1"></span><br>  
  
        Password : <input id="pass" type="password"><span id="s2"></span><br>  
  
        <input type="submit"><br>  
  
    </form>  
  
</body>  
</html>
```

/javascript-class-demo.html

```
<html>  
  <body>  
    <script>  
      class Student{  
        constructor(id, sname){  
          this.id = id  
          this.sname = sname  
        }  
        displayStudentDetails(){  
          console.log(this.id, this.sname)  
        }  
      }  
      var s1 = new Student(101, "Akshata")  
      var s2 = new Student(102, "Harita")  
      s1.displayStudentDetails()  
  
      class GradStudent extends Student{  
        constructor(id, sname, gpa){  
          super(id, sname)
```

```

        this.gpa = gpa
    }
    displayStudentDetails(){
        super.displayStudentDetails()
        console.log(this.gpa)
    }
}

var gs1 = new GradStudent(101, "aaaa", 9.2)
gs1.displayStudentDetails()

</script>
</body>
</html>

```

/function Constructor-demo.html

```

<html>
<body>
<script>
    //Function constructor
    function Book(bookid, bname, author, price){
        this.bookid = bookid
        this.bname = bname
        this.author = author
        this.price = price
        this.incrPrice = function(amount){
            this.price += amount
        }
        this.display = function(){
            console.log(this.bookid, this.bname, this.author, this.price)
        }
    }

    var b1 = new Book(101, "Java", "Shubham", 400)
    var b2 = new Book(102, "JavaScript", "Shubham", 480)
    var b3 = new Book(103, "Servlets", "Shohab", 500)
    var b4 = new Book(104, "JSP", "Harsh", 450)

    var books = [b1, b2, b3, b4]

```

```

        for(book of books){
            book.incrPrice(100)
        }

        for(book of books){
            book.display()
        }

    </script>
</body>
</html>

```

/ajax-demo.html

```

<html>
<head>
    <script>
        function getData(){
            //step-1 : retrieve the XHR object
            var xhr = new XMLHttpRequest()

            //Step-2: Make the connection
            //xhr.open(http-method, url)
            xhr.open("get", "https://jsonplaceholder.typicode.com/todos")

            //Step-3 : send teh request to the server!
            xhr.send()

            //Step-4 : get teh response from server

            xhr.onreadystatechange = function(){
                if(xhr.status == 200 && xhr.readyState == 4){
                    //console.log(xhr.responseText)
                    var todos = JSON.parse(xhr.responseText)

                    var str = ""
                    str += "<table border=1><tr><td>ID</td><td>Title of TOdo</td></tr>"

```

```

        for(todo of todos){
            str += "<tr><td>" + todo.id + "</td><td>" + todo.title + "</td></tr>"
        }
        str += "</table>"

    }
    document.getElementById("d1").innerHTML = str
}
}
</script>
</head>
<body>
    <button onclick="getData()">Fetch Todo List</button>
    <div id="d1"></div>
</body>
</html>

```

[/REST-Demo.js](#)

```

var express = require('express');
var app = express();
const bodyParser = require('body-parser'); //pares the body of the request and lets us
react to it
const cors = require('cors'); //cross-origin resource sharing

app.use(cors({
    //origin: 'http://localhost:4200/'
    origin: '*'
}));

// Configuring body parser middleware
app.use(bodyParser.urlencoded({ extended: false }));
app.use(bodyParser.json());

let courses = [
    {id:1,name:'Java'},
    {id:2,name:'AJAX'},
    {id:3,name:'Angular'}];

app.get('/', function(req, res){

```

```

let str = "<h1>Hello World </h1>"
str += "Do you want to <a href='AddCourse.html'>Add new course</a>"
res.send(str);
});

app.get('/AddCourse.html', function(req, res){
  res.sendFile('AddCourse.html' , { root : __dirname});
});

app.get('/api/courses', function(req, res){
  //res.send([10,20,30,40]);
  res.send(courses);
});

//logic to look for a course with given id
app.get('/api/courses/:id', function(req, res){
  var course;
  for(c in courses){
    if(courses[c].id == parseInt(req.params.id)){
      console.log("found ");
      course = courses[c];
    }
  }
  res.send(course);
});

app.post('/api/courses',function(req,res){
  console.log(req.body)
  let obj = req.body
  //obj.id = courses.length+1
  obj.id = courses[courses.length-1].id+1
  console.log(obj)
  courses.push(obj);
  res.send("Added course : " + JSON.stringify(obj));
});

app.delete('/api/courses/:id', function(req, res){
  var course = {}, index=0;
  for(c in courses){
    if(courses[index].id == parseInt(req.params.id)){
      console.log("course found for delete " + courses[index].toString(),
index);
      course = courses[index];

```

```

        break;
    }
    index++;
}
courses.splice(index,1)
res.send(course)
//res.send("course with id " + req.params.id + " deleted");
});

app.listen(4000, function(){
    console.log("Server is running")
});

```

/ObjInitializer-demo.html

```

<html>

<body>
  <script>
    //Object Initizer//literal
    //JSON - JavaScript Object Notation

    var person = {pname:"Shamala", age:22}
    //console.log(person.pname, person.age) //read
    person.pname = "Harshita" //write
    person.age = 25
    //console.log(person.pname, person.age) //read

    var student = {
      sname : "Sumit",
      age : 21.5,
      graduated : true,
      hobbies : ["Cricket","Coding", "Reading","Eating"],
      address : {city : 'Rourkela', state : "Odissa"}
    }

    /*console.log(student.sname, student.age, student.graduated)
    console.log(student.hobbies[1])
    console.log(student.address.state)*/

```



```

var book = {
  bookid : 1001,
  title : "Learning Javascript",
  author : 'Shubham',
  price : 450,
  display : function(){
    console.log(this.bookid, this.author, this.title, this.price)
  },
  incrPrice : function(amount){
    this.price += amount
  }
}

/*
book.display()
book.incrPrice(100)
book.display() */

var users = [
  {uname:"Sunit", password:"sleeping"},
  {uname:"Harshita", password:"secret"},
  {uname:"admin", password:"admin123"},
  {uname:"user1", password:"pass1"}
]

var str = ""
str += "<table border='1'>"
str += "<tr><th>Username</th><th>Password</th></tr>"

for(user of users){
  str += "<tr><td>" + user.uname + "</td><td>" + user.password + "</td></tr>"
}

str += "</table>"

document.writeln(str)

</script>

```

</body>

</html>