

**Q. Create a Node.js file that will convert the output "Hello World!" into upper-case letters.**

**Solution:**

```
var http = require('http');
var uc = require('upper-case');
http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/html'});
  /*Use our upper-case module to upper case a string:*/
  res.write(uc.upperCase("Hello World!"));
  res.end();
}).listen(8080);
```

**Q.Using nodejs create a web page to read two file names from user and append contents of the first file into the second file.**

**Solution:**

```
var fs=require('fs');

fs.appendFile('f1.txt','f2.txt',
function(err){
if(err) throw err;
console.log('Updated');
});
```

f1.txt

"Welcome to BBA(CA)

f2.txt

BBA(CA) Department

**Q. Create an HTML form for Login and write a JavaScript to validate email ID using Regular Expression.**

**Solution:**

HTML Code

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>JavaScript form validation - checking email</title>
<link rel='stylesheet' href='form-style.css' type='text/css' />
</head>
```

```

<body onload='document.form1.text1.focus()>
<div class="mail">
<h2>Input an email and Submit</h2>
<form name="form1" action="#">
<ul>
<li><input type='text' name='text1' /></li>
<li>&nbsp;</li>
<li class="submit"><input type="submit" name="submit" value="Submit"
onclick="ValidateEmail(document.form1.text1)" /></li>
<li>&nbsp;</li>
</ul>
</form>
</div>
<script src="email-validation.js"></script>
</body>
</html>

```

### Javascript Code

```

function ValidateEmail(inputText)
{
var mailformat = /^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+)*\\.\\w{2,3}+$/;
if(inputText.value.match(mailformat))
{
alert("Valid email address!");
document.form1.text1.focus();
return true;
}
else
{
alert("You have entered an invalid email address!");
document.form1.text1.focus();
return false;
}
}

```

### CSS Code

```

li {list-style-type: none;
font-size: 16pt;
}
.mail {
margin: auto;
padding-top: 10px;
padding-bottom: 10px;
width: 400px;
background : #D8F1F8;

```

```

border: 1px solid silver;
}
.mail h2 {
margin-left: 38px;
}
input {
font-size: 20pt;
}
input:focus, textarea:focus{
background-color: lightyellow;
}
input submit {
font-size: 12pt;
}
.rq {
color: #FF0000;
font-size: 10pt;
}

```

**Q. Create a Node.js file that opens the requested file and returns the content to the client. If anything goes wrong, throw a 404 error.**

**Solution:**

```

var http = require('http');

var url = require('url');

var fs = require('fs');

http.createServer(function (req, res) {

    var q = url.parse(req.url, true);

    var filename = "." + q.pathname;

    fs.readFile(filename, function(err, data) {

        if (err) {

            res.writeHead(404, {'Content-Type': 'text/html'});

            return res.end("404 Not Found");

        }
    })

```

```
res.writeHead(200, {'Content-Type': 'text/html'});

res.write(data);

return res.end();

});

}).listen(8080);
```

### Initiate demo\_server.js file :

C:\Users\Your Name>node demo\_server.js

**Q.Create an HTML form that contains the Employee Registration details and write a JavaScript to validate DOB, Joining Date, and Salary.**

**Solution:**

employee.html

```
<!DOCTYPE html>
<html lang="en"><head>
<meta charset="utf-8">
<title>JavaScript Form Validation using a sample Employee registration form</title>
<meta name="keywords" content="example, JavaScript Form Validation, Sample registration form" />
<meta name="description" content="This document is an example of JavaScript Form Validation using a sample registration form. " />
<link rel='stylesheet' href='employee.css' type='text/css' />
<script src="employee.js">
</script>
</head>
<body onload="document.registration.userid.focus();"bgcolor="orange">
<h1>Employee Registration Form</h1>
<form name='registration' onSubmit="return formValidation();">
<ul>
<li><label for="first">First Name:</label></li>
<li><input type="text" name="first" size="50" /></li>
<li><label for="last">Last Name:</label></li>
<li><input type="text" name="last" size="50" /></li>
```

```

<li><label for="empid">Employee id:</label></li>
<li><input type="text" name="empid" size="50" /></li>
<li><label for="birth">Birth of date:</label></li>
<li><input type="date" id="birth" name="birth"></li>
<li><label for="address">Address:</label></li>
<li><input type="text" name="address" size="50" /></li>
<li><label for="country">Country:</label></li>
<li><select name="country">
<option selected="" value="Default">(Please select a country)</option>
<option value="AF">Australia</option>
<option value="AL">Canada</option>
<option value="DZ">India</option>
<option value="AS">Russia</option>
<option value="AD">USA</option>
</select></li>
<li><label for="no">Contact no:</label></li>
<li><input type="number" id="" name="no"></li>
<li><label for="jdate">Date of joining:</label></li>
<li><input type="date" id="" name="jdate"></li>
<li><label for="email">Email:</label></li>
<li><input type="text" name="email" size="50" /></li>
<li><label id="gender">Gender:</label></li>
<li><input type="radio" name="male" value="Male" /><span>Male</span></li>
<li><input type="radio" name="female" value="Female" /><span>Female</span></li>
<li><label for="salary">salary:</label></li>
<li><input type="number" id="salary" name="salary"></li>
<li><input type="submit" name="submit" value="Submit" /></li>
</ul>
</form>
</body>
</html>

```

employee.js

```

function formValidation()
{
var first=document.registration.first;
var last=document.registration.last;
var empid=document.registration.empid;
var birth=document.registration.birth;
var uadd =document.registration.address;
var ucountry =document.registration.country;
var no=document.registration.no;

```

```

var jdate=document.registration.jdate;
var uemail = document.registration.email;
var umgen = document.registration.umgen;
var ufgen = document.registration.ufgen;
var salary =document.registration.salary;
if(allLetter(first))
{
if(allLetter(last))
{
if(alphanumeric(empid))
{
if(allb(birth))
{
if(alphanumeric(uadd))
{
if(countryselect(ucountry))
{
if(allnumeric(no))
{
if(allnumeric(jdate))
{
if(ValidateEmail(uemail))
{
if(validgendor(umgen,ufgen))
{
if(allnumeric(salary))
{
}}}}}}}}}}
return false;
}
function allLetter(first)
{
var letters = /^[A-Za-z]+$;/;
if(first.value.match(letters))
{
alert('employee name submitted');
return true;
}
else
{
alert('employee name must have alphabet characters only');
first.focus();
return false;
}
}
}

```

```
function allLetter(last)
{
var letters = /^[A-Za-z]+$/;
if(last.value.match(letters))
{
    alert("employee name submitted");
return true;
}
else
{
alert('employee name must have alphabet characters only');
last.focus();
return false;
}
}
function alphanumeric(empid)
{
var letters = /^[0-9a-zA-Z]+$/;
if(empid.value.match(letters))
{
    alert("employee id submitted");
return true;
}
else
{
alert('employee id must have alphanumeric characters only');
uadd.focus();
return false;
}
}
function allb(birth)
{
var birth_len = birth.value.length;
if (birth_len == 0)
{
alert("birth date should not be empty");
birth.focus();
return false;
}
alert("birth of date submitted");
return true;
}
function alphanumeric(uadd)
{
var letters = /^[0-9a-zA-Z]+$/;
```

```
if(uadd.value.match(letters))
{
    alert("address submitted");
return true;
}
else
{
alert('address must have alphanumeric characters only');
uadd.focus();
return false;
}
}
function countryselect(ucountry)
{
if(ucountry.value == "Default")
{
alert('Select your country from the list');
ucountry.focus();
return false;
}
else
{
    alert("country submitted");
return true;
}
}
function allnumeric(no)
{
var number = /^[0-9]+$/;
if(no.value.match(number))
{
    alert("Contact Number submitted");
return true;
}
else
{
    alert('Contact no must have numeric numbers only');
no.focus();
return false;
}
}
function allnumeric(jdate)
{
var jdate_len = jdate.value.length;
if(jdate_len == 0)
```



```

{
alert("date of joining should not be empty");
birthday.focus();
return false;
}
alert("date of joining submitted");
return true;
}
function ValidateEmail(uemail)
{
var mailformat = /^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+)*(\\.\\w{2,3})+$/;
if(uemail.value.match(mailformat))
{
    alert("email address is submitted");
    return true;
}
else
{
alert("You have entered an invalid email address!");
uemail.focus();
return false;
}
}
function validgender(umgen,ufgen)
{
x=0;
if(umgen.checked)
{
x++;
} if(ufgen.checked)
{
x++;
}
if(x==0)
{
alert('Select Male/Female');
umgen.focus();
return false;
}
else
{
window.location.reload()
return true;
}
}

```

```
function allnumeric(salary)
{
var sal = /^[0-9]+$ /;
if(salary.value.match(sal))
{
alert("salary submitted");
return true;
}
else
{
alert('salry is not submitted');
salary.focus();
return false;
}
}
employee.css
```

```
h1 {
margin-left: 70px;
}
form li {
list-style: none;
margin-bottom: 5px;
}

form ul li label{
float: left;
clear: left;
width: 100px;
text-align: right;
margin-right: 10px;
font-family: Verdana, Arial, Helvetica, sans-serif;
font-size: 14px;
}

form ul li input, select, span {
float: left;
margin-bottom: 10px;
}

form textarea {
float: left;
width: 350px;
```

```
height: 150px;  
}
```

```
[type="submit"] {  
clear: left;  
margin: 20px 0 0 230px;  
font-size:18px  
}
```

```
p {  
margin-left: 70px;  
font-weight: bold;  
}
```