

Slip1:- Create an HTML form that contain the Student Registration details and write a JavaScript to validate Student first and last name as it should not contain other than alphabets and age should be between 18 to 50.

```
<html>
<head>
<script>
function validate()
{
    fname=document.getElementById("fnm").value;
    lname=document.getElementById("lnm").value;
    age=document.getElementById("ag").value;
    mobile=document.getElementById("mb").value;
    address=document.getElementById("add").value;
    pincode=document.getElementById("pin").value;
    if(fname==" "||lname==" "||age==" "||mobile==" "||address==" "||
|pincode==" ")
    {
        alert("Fields should not be empty");
        return false;
    }
    else if(!fname.match(/^[A-Za-z]+$/))
    {
        alert("First Name should contain only characters")
        return false;
    }
    else if(!lname.match(/^[A-Za-z]+$/))
    {
        alert("Last Name should contain only characters")
        return false;
    }
    else if((age<18 || age>50))
    {
        alert("Age not within range")
        return false;
    }

    else if(!mobile.match(/^\d{10}$/))
    {
        alert("Mobile number Not valid")
        return false;
    }
}
```

```

        else if(!pincode.match(/^\\d{6}$\\/))
        {
            alert("Pin number Not valid")
            return false;
        }
        alert("Valid");
        return true;
    }
</script>
</head>

<body>
<form>
<h1>Student Registration Form</h1><br><br>
First Name : <input type=text id=fnm><br><br>
Last Name : <input type=text id=lnm><br><br>
Age : <input type=text id=ag><br><br>
Mobile No : <input type=text id=mb><br><br>
Address : <input type=text id=add><br><br>
Pincode : <input type=text id=pin><br><br>
<input type=submit value="SUBMIT" onClick="return validate()">
<input type=reset value="Reset">
</form>
</body>

</html>

```

/* Slip2:- Create an HTML form that contain the Employee Registration details and write a JavaScript to validate DOB, Joining Date, and Salary. */

```

<html>
<head>
<script>
function validate()
{
    name=document.getElementById("nm").value;
    bdate=document.getElementById("bdt").value;
    jdate=document.getElementById("jdt").value;
    salary=document.getElementById("sal").value;

```

```

        if(name==" "||bdate==" "||jdate==" "||salary=="")
        {
            alert("Fields should not be empty");
            return false;
        }
        if(!name.match(/^[A-Za-z]+$\/))
        {
            alert("First Name should contain only characters")
            return false;
        }
        if(salary<10000)
        {
            alert("Salary not within range")
            return false;
        }
        alert("Valid");
        return true;
    }
</script>
</head>

<body>
<form>
<h1>Employee Registration Form</h1><br><br>
    Employee Name : <input type=text id=nm><br><br>
    Birth Date : <input type=text id=bd><br><br>
    Joining Date : <input type=text id=jdt><br><br>
    Salary : <input type=text id=sal><br><br>
    <input type=submit value="SUBMIT" onClick="return
validate()">
    <input type=reset value="Reset">
</form>
</body>

</html>

```

/* Slip3:- Create an HTML form for Login and write a JavaScript to validate email ID using Regular Expression. */

```

<html>

```

```

<head>
<script>
    function validate()
    {
        emailid=document.getElementById("em").value;
        password=document.getElementById("pw").value;

        if(emailid==" "|password=="")
        {
            alert("Fields should not be empty");
            return false;
        }
//else if(!emailid.match(/^[A-Za-z0-9.]+@[A-Za-z]+\.[a-z]+)$/
))
else if(!emailid.match(/^[([A-Za-z0-9.]+)@([A-Za-z]+)\.([a-
z]{2,10})(\.[a-z]{2,10})?$/))

        {
            alert("Email Id is not valid");
            return false;
        }
else if(password.length<6)
{
    alert("Password must be at least 6 characters
long.");
    return false;
}
alert("Valid");
return true;
    }
</script>
</head>
<body>
<form>
Email ID: <input type=text id=em><br> <br>
Password: <input type=text id=pw><br> <br>
<input type=submit value="SUBMIT" onClick="return validate()">
<input type=reset value="Reset">
</form>
</body>
</html>

```

/* Slip4:- Create a Node.js file that will convert the output "Hello World!" into upper-case letters. */

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

/* Slip5:- Using nodejs create a web page to read two file names from user and append contents of first file into second file. */

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

http.createServer(function(req, res)
{
    if(req.url=='/')
    {
        res.writeHead(200, {'Content-Type': 'text/html'});
        res.write('<form action="fapp" method="post"
enctype="multipart/form-data">');
        res.write('<h1>SELECT TWO FILES</h1>');
        res.write('<input type="file" name="rf"><br>');
        res.write('<input type="file" name="wf"><br>');
        res.write('<input type="submit">');
        res.end();
    }
    else if(req.url=='/fapp')
    {
        var form=new formidable.IncomingForm();
        form.parse(req,function(err,fields,files)
```

```

        {
            if(!err)
            {
                var
w=fs.createWriteStream(files.wf.name,{flags:'a'});
                var
r=fs.createReadStream(files.rf.name);
                w.on('close',function()
                {
                    console.log("Writing Done");
                });
                r.pipe(w);
                res.write(files.rf.name);
                res.end("Append successfully");
            }
            else
            {
                res.write("Error in writing");
            }
        });
    }
    else
    {
        res.end("page not found");
    }
}).listen(8001);

```

/* Slip6:- 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. */

```

var http=require(http);
var fs=require(fs);

var server=http.createServer(function(req,res)
{
    fs.open(file1.txt,'r'+function(err,fd)
    {
        if(err)

```

```

        {
            console.error(err);
            return res.end("404 File Not Found");
        }
        else
        {
            console.log("file opened successfully");
            fs.readFile(file1.txt,function(err,data)
            {
                if(err)
                console.log(success);
                res.end(data);
                fs.close(fd);
            });
        }
    });
});
server.listen(9000);

```

/* Slip7:- Create a Node.js file that writes an HTML form, with an upload field. */

```

var http = require('http');
var formidable = require('formidable');

http.createServer(function(req, res)
{
    if (req.url == '/fileupload')
    {
        var form = new formidable.IncomingForm();
        form.parse(req, function(err, fields, files)
        {
            res.write('File uploaded');
            res.end();
        });
    }
    else
    {
        res.writeHead(200, {'Content-Type': 'text/html'});
    }
}

```

```

        res.write('<form action="" method="post"
enctype="multipart/form-data">');
        res.write('<input type="file"
name="filetoupload"><br>');
        res.write('<input type="submit">');
        res.write('</form>');
        return res.end();
    }
}).listen(9000);

```

**/* Slip8:- Create a Node.js file that demonstrates
create database and table in MySQL. */**

```

//Create Database
var mysql = require('mysql');
var con = mysql.createConnection(
{
    host:"localhost",
    user:"root",
    password:""
});
con.connect(function(err)
{
    if(err)
    {
        throw err;
    }
    console.log("Connected !");
    con.query("CREATE DATABASE DB", function (err, result)
    {
        if (err)
        {
            throw err;
        }
        console.log("Database created");
    });
});

```



```

//Create Table
var mysql = require('mysql');
var con = mysql.createConnection(
{
    host: "localhost",
    user: "root",
    password: "",
    database: "DB"
});
con.connect(function(err)
{
    if (err)
    {
        throw err;
    }
    console.log("Connected!");
    var sql = "CREATE TABLE customers (name VARCHAR(255),
address VARCHAR(255))";
    con.query(sql, function (err, result)
    {
        if(err)
        {
            throw err;
        }
        console.log("Table created");
    });
});
});

```

/* Slip9:- Create a node.js file that Select all records from the "customers" table, and display the result object on console. */

```

var mysql = require('mysql');
var con = mysql.createConnection(
{
    host: "localhost",

```

```

        user: "root",
        password: "",
        database: "DB"
    });
    con.connect(function(err)
    {
        if(err)
        {
            throw err;
        }
        con.query("SELECT * FROM customers", function (err,
result, fields)
        {
            if(err)
            {
                throw err;
            }
            console.log(result);
        });
    });
});

```

/* Slip10:- Create a node.js file that Insert Multiple Records in "student" table, and display the result object on console.

```

var mysql = require('mysql');
var con = mysql.createConnection(
{
    host: "localhost",
    user: "root",
    password: "",
    database: "DB"
});
con.connect(function(err)
{
    if(err)
    {

```

```

        throw err;
    }
    console.log("Connected!");
    var sql = "INSERT INTO student (rno, name) VALUES ?";
    var values = [
        ['101', 'AAA'],
        ['102', 'BBB'],
        ['103', 'CCC'],
        ['104', 'DDD'],
        ['105', 'EEE'],

    ];
    con.query(sql, [values], function (err, result)
    {
        if(err)
        {
            throw err;
        }
        console.log("Number of records inserted: " +
result.affectedRows);
    });
});

```