5.1)

```html
<!DOCTYPE html>
<html lang="en">



<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>5.1</title>
    <style>
        form {
            width: 500px;
        }



        form fieldset {
            border: 2px solid black;
            box-shadow: 2px 2px 2px rgba(0, 0, 0, 0.5);
        }



        .box {
            display: flex;
            margin-bottom: 5px;
        }



        .n {
            width: 30%;
        }
    </style>
</head>



<body>
    <form action="">
        <fieldset>
            <legend>Form Validation</legend>
```

```html
<div class="box">
    <div class="n">Name:</div>
    <div class="in"><input type="text" name="" id="" required></div>
</div>
<div class="box">
    <div class="n">Username:</div>
    <div class="in"><input type="text" name="" id="" required></div>
</div>
<div class="box">
    <div class="n">Password:</div>
    <div class="in"><input type="password" name="" id="" required></div>
</div>
<div class="box">
    <div class="n">Re-Password:</div>
    <div class="in"><input type="password" name="" id="" required></div>
</div>
<div class="box">
    <div class="n">Gender:</div>
    <div class="in"><input type="radio" name="gen">Male <input type="radio" name="gen">Female <input
                type="radio" name="gen">Other</div>
</div>
<div class="box">
    <div class="n">Programming Skills:</div>
    <div class="in"><input type="checkbox">Java <input type="checkbox">Android <input type="checkbox">Ruby
            <input type="checkbox">.net</div>
</div>
<div class="box">
    <div class="n">Contact No.:</div>
    <div class="in"><input type="number" name="" id="" required></div>
</div>
<div class="box">
    <div class="n">Email:</div>
    <div class="in"><input type="email" name="" id="" required></div>
</div>
<div class="box">
    <div class="n">College:</div>
    <div class="in">
```
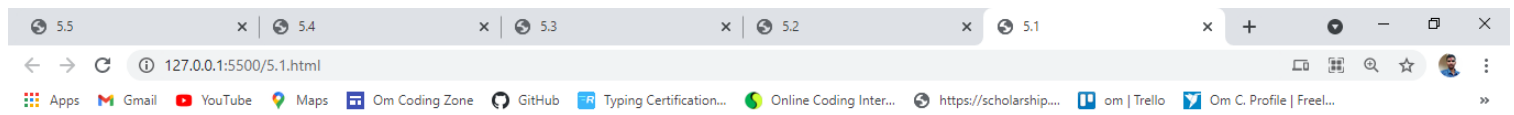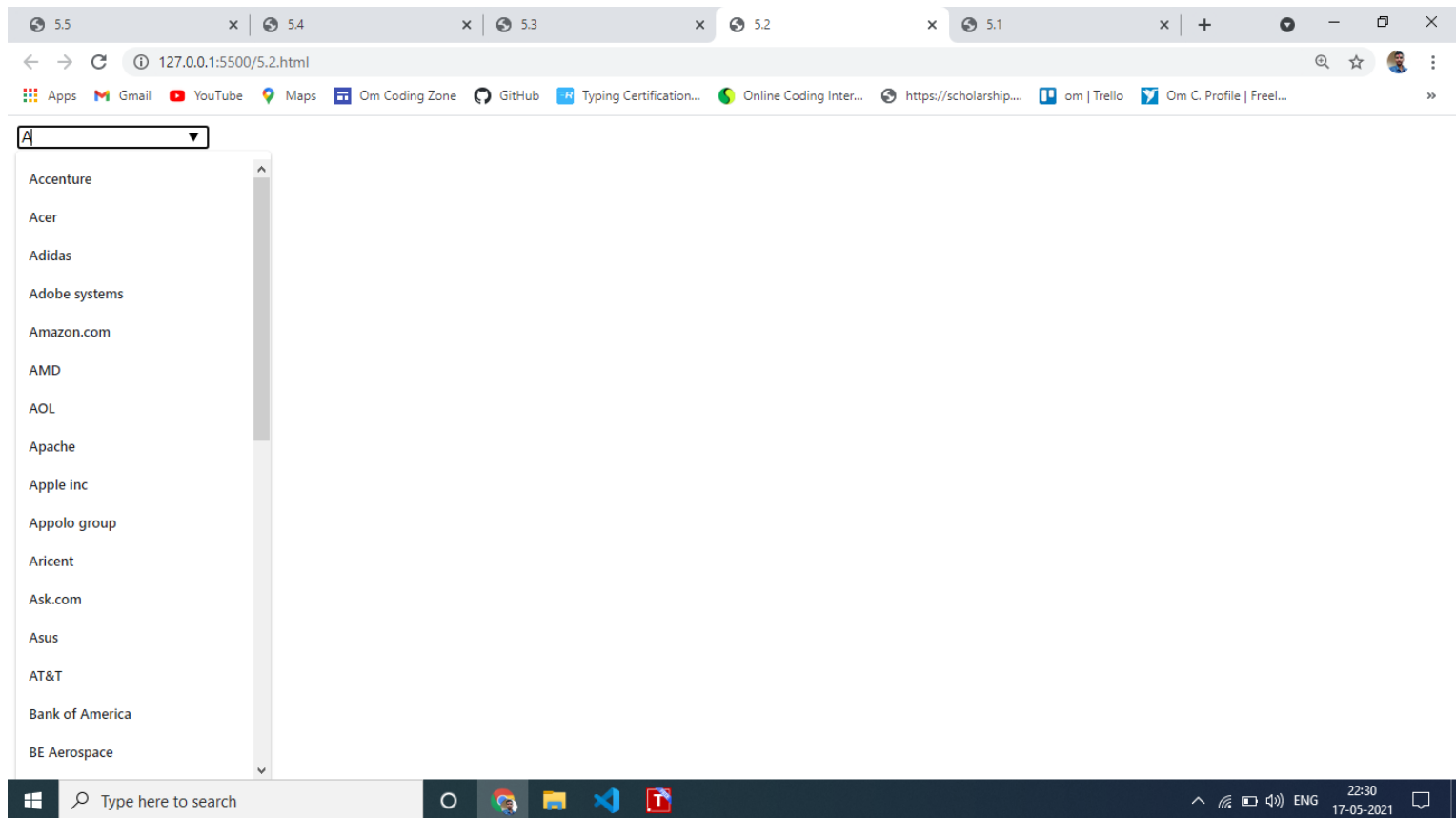
```html
                <select required>
                    <option value="">select</option>
                    <option value="">Option 1</option>
                    <option value="">Option 2</option>
                </select>
            </div>
        </div>
        <div class="box">
            <div class="n"></div>
            <div class="in"><input type="submit" value="Submit"></div>
        </div>
    </fieldset>
  </form>
</body>



</html>
```


Form Validation

Name:
Username:
Password:
Re-Password:
Gender: ○ Male ○ Female ○ Other
Programming Skills: ☐ Java ☐ Android ☐ Ruby ☐ .net
Contact No.:
Email:
College: select
Submit

5.2)

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>5.2</title>
</head>
<body>
    <form action="">


<input type="text" list="this">
<datalist id="this">
<option value="Accenture"></option>
<option value="Acer"></option>
<option value="Adidas"></option>
<option value="Adobe systems"></option>
<option value="Amazon.com"></option>
<option value="AMD"></option>
<option value="AOL"></option>
<option value="Apache"></option>
<option value="Apple inc"></option>
<option value="Appolo group"></option>
<option value="Aricent"></option>
<option value="Ask.com"></option>
<option value="Asus"></option>
<option value="AT&T"></option>
<option value="Bank of America"></option>
<option value="BBC"></option>
<option value="BE Aerospace"></option>
<option value="BMC Software"></option>
<option value="Boeing"></option>
<option value="Bosch Brewing Company"></option>
<option value="Boston Acoustic"></option>
<option value="CA Technologies"></option>
<option value="Citrix Systems"></option>
<option value="Cognizant Technolog"></option>
```

```html
<option value="Cognizant Technology Solutions"></option>
<option value="Convergys"></option>
<option value="Dell"></option>
<option value="Delphi"></option>
<option value="DHL"></option>
<option value="Divx Inc"></option>
<option value="eBay"></option>
<option value="EMC Corporation"></option>
<option value="Exelon"></option>
<option value="Facebook"></option>
<option value="Ford Motor Company"></option>
<option value="Fox Entertainment Group"></option>
<option value="GCI"></option>
<option value="GoDaddy"></option>
<option value="Goodrich Corporation"></option>
<option value="Google"></option>
<option value="Hawaiian Airlines"></option>
<option value="Hewlett-Packard"></option>
<option value="Honeywell"></option>
<option value="IBM"></option>
<option value="Intel"></option>
<option value="Johnson & Johnson"></option>
<option value="KFC"></option>
<option value="McDonalds"></option>
<option value="Microsoft"></option>
<option value="Motorola"></option>
<option value="Nvidia"></option>
<option value="Red Hat"></option>
<option value="Yahoo!"></option>
</datalist>


    </form>
</body>
</html>
```

5.3)

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>5.3</title>
</head>
<body>
    <form action="">
        <h1>Optgroup tag examples!</h1>
        Please select: <select >
            <option value="">select</option>
            <option value="">Programming</option>
            <option value="">Database</option>
            <option value="">Web Application</option>
            <optgroup label="Hardware">
                <option value="Star scouts">Central Processing Unit</option>
                <option value="Life scouts">Mouse</option>
                <option value="Eagle scouts">Keyboard</option>
```

```
        </optgroup>

        <optgroup label="Software">

            <option value="Star scouts">System Software</option>

            <option value="Life scouts">Application Software</option>


        </optgroup>

    </select>

  </form>

</body>

</html>
```
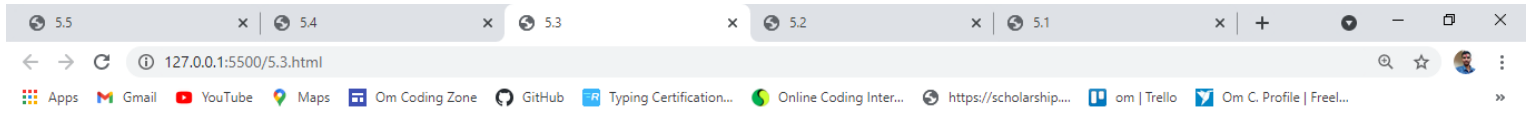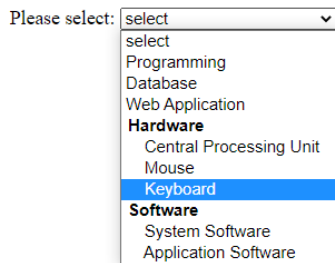

Optgroup tag examples!

Please select: select

- select
- Programming
- Database
- Web Application
- **Hardware**
  - Central Processing Unit
  - Mouse
  - Keyboard
- **Software**
  - System Software
  - Application Software

```
5.4)

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>5.4</title>

</head>

<body>

    <form action="">
```

```html
            <input type="file" multiple>
    </form>
</body>
</html>
```


5.5)

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>5.5</title>
</head>
<body>
    <form action="">
        <input type="number" min="1" max="1000000">
        <input type="date" min="2020-01-01" max="2020-12-31">
    </form>
</body>
</html>
```