

Name: Nadeem Shaikh
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Subject: AIT
Course: MCA-1 Sem-2

Program No. 1. To structure a web form for registration using HTML5 elements, attributes and semantics for online shopping application.

Program Code:

```
<!DOCTYPE html>
<html>
<head>
<h1> Welcome to Virtual Shoppy Inc. </h1>
<h3> Register yourself</h3>
</head>
<body>
<form>
    <table>
        <tr>
            <td>
                First Name:
            </td>
            <td>
                <input type="name" placeholder=First Name" name="">
            </td>
        </tr>
        <tr>
            <td>
                Last Name:
            </td>
            <td>
                <input type="name" placeholder=Last Name" name="">
            </td>
        </tr>
        <tr>
            <td>
                Username:
            </td>
            <td>
                <input type="username:" placeholder=username name="">
            </td>
        </tr>
        <tr>
            <td>
                Password:
            </td>
            <td>
```

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```
<input type="password" placeholder=password name="">
</td>
</tr>
<tr>
<td>
Email Address:
</td>
<td>
<input type="mail" pattern="[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,63}$" required />
</td>
</tr>
<tr>
<td>
Address:
</td>
<td>
<input type="Street:" placeholder=Street name="">
</td>
</tr>
<tr>
<td>
City:
</td>
<td>
<input type="City:" placeholder=City name="">
</td>
</tr>
<tr>
<td>
Pin Code:
</td>
<td>
<input type="Pin Code:" pattern="[0-6.] required />
</td>
</tr>
<tr>
<td>
Phone No:
</td>
<td>
<input type="tel" id="phone" pattern="^\d{10}$" required >
</td>
</tr>
```

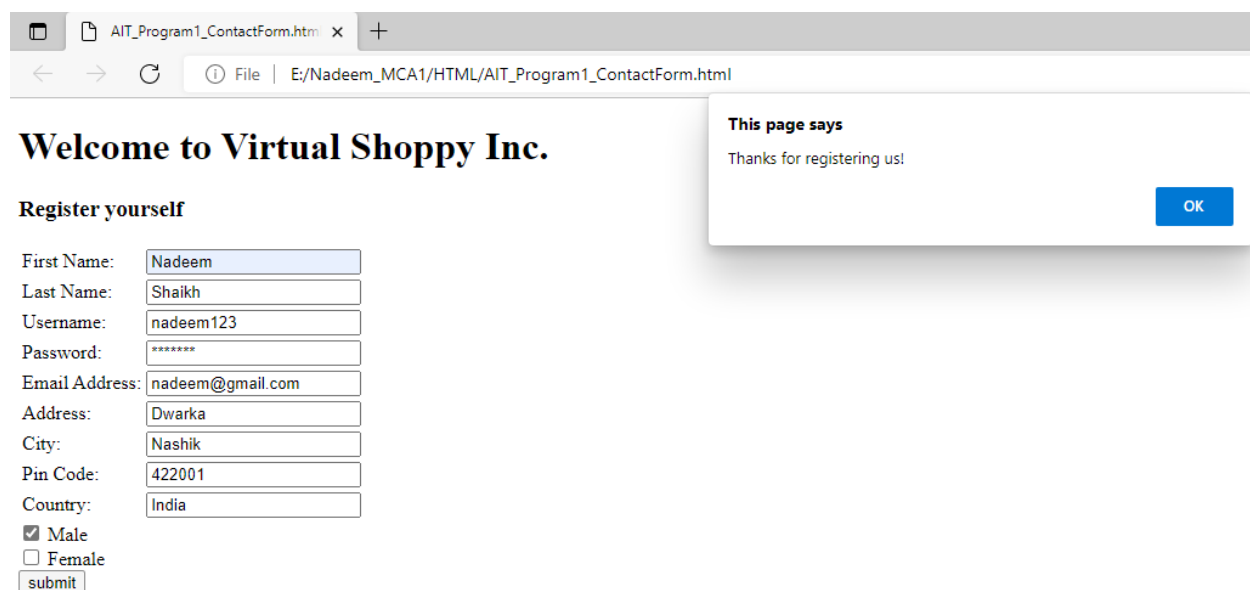
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```
<tr>
    <td>
        Country:
    </td>
    <td>
        <input type="Country:" placeholder="Country name=""">
    </td>
</tr>

</table>

<input type="checkbox" name="Male" value="Male"> Male<br> <input type="checkbox" name="Female"
value="Female"> Female<br>
<input type="submit" value="submit" onclick="return foo();" />
<script>
function foo() {
    alert("Thanks for registering us!");
    return true;
}
</script>
</form>
</body>
</html>
*****
```

Program Output:



The screenshot shows a web browser window with the address bar displaying 'E:/Nadeem_MCA1/HTML/AIT_Program1_ContactForm.html'. The page title is 'Welcome to Virtual Shoppy Inc.'. Below the title is a 'Register yourself' section with a form containing the following fields and values:

- First Name: Nadeem
- Last Name: Shaikh
- Username: nadeem123
- Password: *****
- Email Address: nadeem@gmail.com
- Address: Dwarka
- City: Nashik
- Pin Code: 422001
- Country: India
- Gender: ☒ Male, ☐ Female
- Submit button

A confirmation alert box is displayed on the right side of the page, titled 'This page says' with the message 'Thanks for registering us!' and an 'OK' button.

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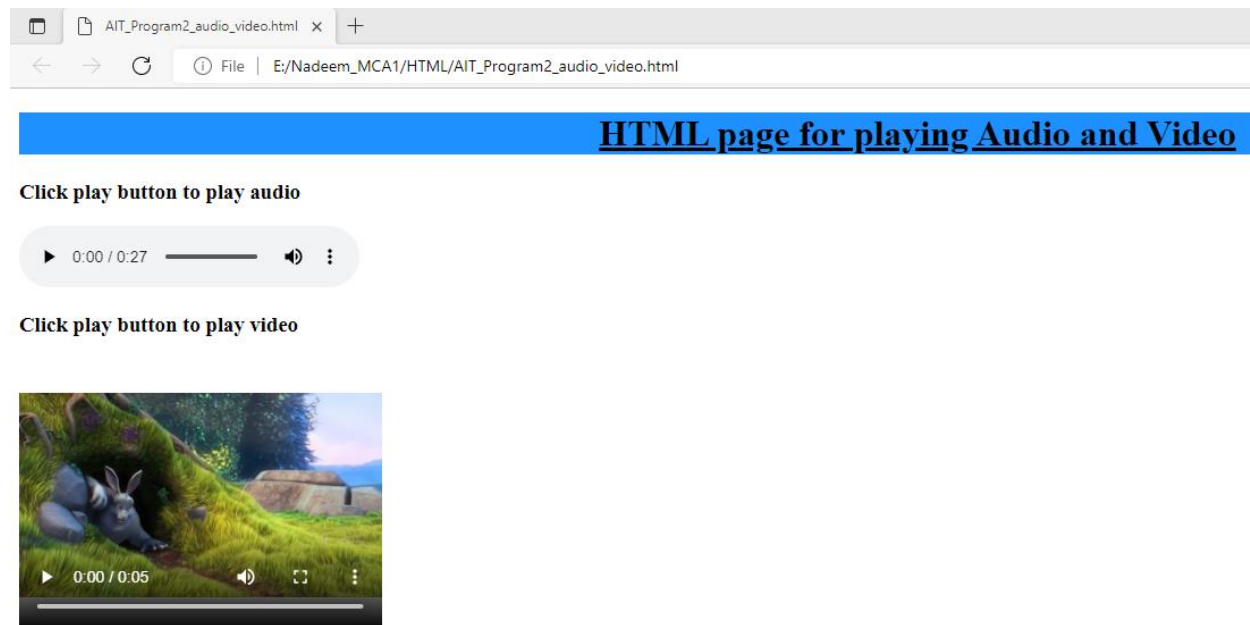
Program No. 2 Create a website for online shopping application by using Audio and Video features for your web page.

Program Code:

```
<!DOCTYPE html>
<html>
<head>
<center>
  <h1 style="background-color:DodgerBlue;" > <u> HTML page for playing Audio and Video </u> </h1>
</center>
</head>
<body>
<h3>Click play button to play audio</h3>
<audio src="E:\Nadeem_MCA1\HTML\file_example_MP3_700KB.MP3" controls></audio>

<h3>Click play button to play video</h3>
<video width="320" height="240" controls>
  <source src="E:\Nadeem_MCA1\HTML\big_buck_bunny_720p_1mb.MP4">
</video>
</body>
</html>
```

Program Output:



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Program 3 : Create a beautiful animation by using canvas and svg element of HTML5 for your online shopping application.

Program Code:

```
<!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>lightning</title>
  <style>
    body {
      background-color: rgb(27, 27, 27);
    }

    canvas {
      background-color: hsl(0, 0%, 10%);
    }
  </style>
</head>
<body>
  <center>
    <canvas id="canvas"></canvas>
  </center>

  <script>
    var size = 500;
    var c = document.getElementById("canvas");
    c.width = size;
    c.height = size;
    var ctx = c.getContext("2d");

    var center = { x: size / 2, y: 20 };
    var minSegmentHeight = 5;
    var groundHeight = size - 20;
    var color = "hsl(180, 80%, 80%)";
    var roughness = 2;
    var maxDifference = size / 5;

    ctx.globalCompositeOperation = "lighter";

    ctx.strokeStyle = color;
    ctx.shadowColor = color;
```

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```
ctx.fillStyle = color;
ctx.fillRect(0, 0, size, size);
ctx.fillStyle = "hsla(0, 0%, 10%, 0.2)";
```

```
function render() {
  ctx.shadowBlur = 0;
  ctx.globalCompositeOperation = "source-over";
  ctx.fillRect(0, 0, size, size);
  ctx.globalCompositeOperation = "lighter";
  ctx.shadowBlur = 15;
  var lightning = createLightning();
  ctx.beginPath();
  for (var i = 0; i < lightning.length; i++) {
    ctx.lineTo(lightning[i].x, lightning[i].y);
  }
  ctx.stroke();
  requestAnimationFrame(render);
}
```

```
function createLightning() {
  var segmentHeight = groundHeight - center.y;
  var lightning = [];
  lightning.push({x: center.x, y: center.y});
  lightning.push({x: Math.random() * (size - 100) + 50, y: groundHeight + (Math.random() - 0.9) * 50});
  var currDiff = maxDifference;
  while (segmentHeight > minSegmentHeight) {
    var newSegments = [];
    for (var i = 0; i < lightning.length - 1; i++) {
      var start = lightning[i];
      var end = lightning[i + 1];
      var midX = (start.x + end.x) / 2;
      var newX = midX + (Math.random() * 2 - 1) * currDiff;
      newSegments.push(start, {x: newX, y: (start.y + end.y) / 2});
    }

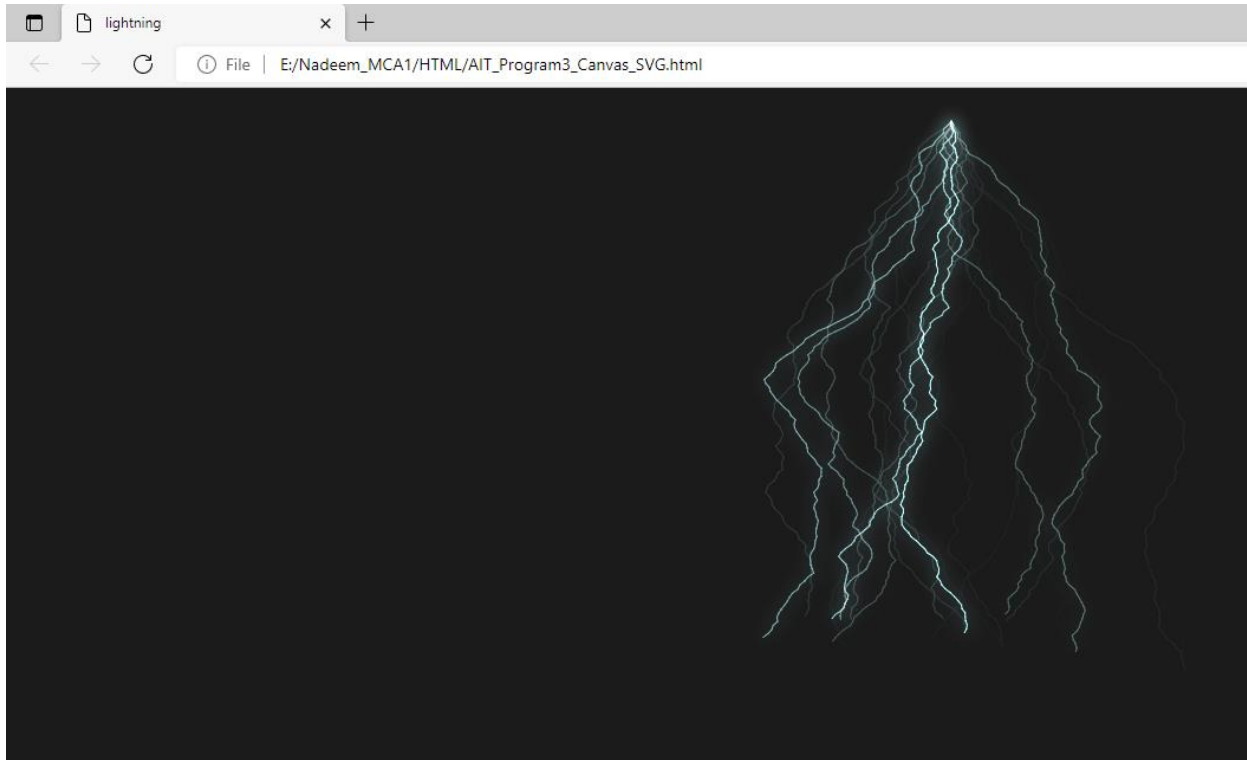
    newSegments.push(lightning.pop());
    lightning = newSegments;

    currDiff /= roughness;
    segmentHeight /= 2;
  }
  return lightning;
}
```

```
render();
</script>
</body>
</html>
```

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Program No. 4 Make your online shopping website more attractive by using external and internal styles in the web page using font, text, background, borders, opacity and other CSS 3 properties.

Program Code:

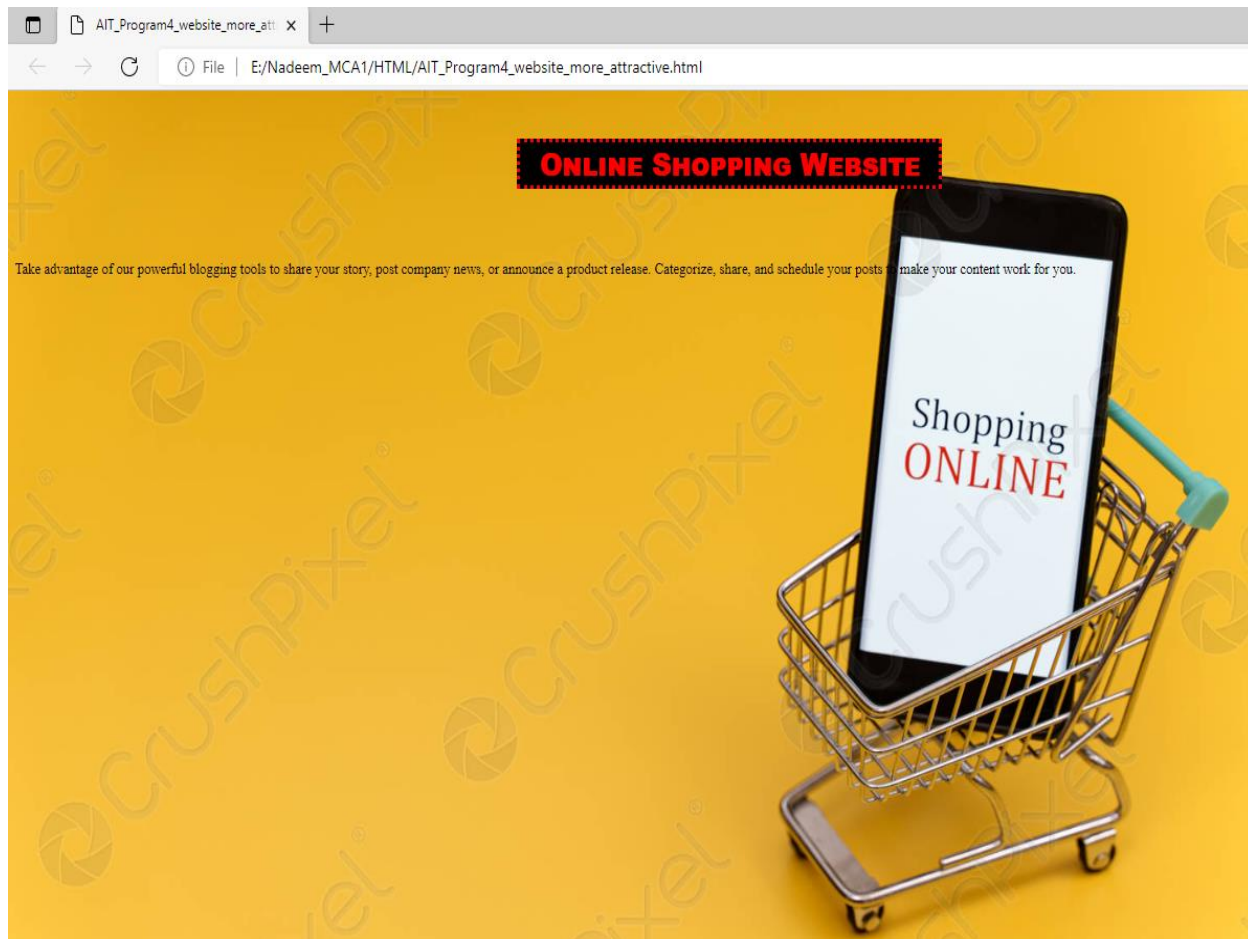
```
<html>
<head>
<style>
h1{
    color:red;
    font-variant: small-caps;
    font-family:Arial black;
        text-align:center;
        white-space:nowrap;
    width:500px;
    border-style: dotted;
        background-color: black;
        margin: 50px 600px 75px;

}

</style>
</head>
<body background=" E:\Nadeem_MCA1\HTML\img\shopping-cart.jpg"><h1> Online Shopping Website </h1>
<p>
    Take advantage of our powerful blogging tools to share your story, post company news, or announce a product release.
    Categorize, share, and schedule your posts to make your content work for you.</body>
</html>
```

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Your web page.

Program Code:

```
<html>
<head>
<style>
div {
padding-top:200px;
width: 150px;
height: 20px;
text-align: center;
background-color: red;
}
.rotate1 {
/* specify rotation properties for class rotate1 */
transform: rotate(20deg);
background-color: skyblue;
}
.rotate2 {
/* specify rotation properties for class rotate2 */
transform: rotate(50deg);
background-color: red;
}

.translate1 {
/* specify translation properties for class translate1 */
transform: translate(100px);
background-color: yellow;
}
.translate2 {
/* specify translation properties for class translate2 */
transform: translate(210px,40px);
background-color: orange;
}
.scale1 {
/* specify scaling properties for class scale1 */
transform: scale(1.2);
background-color: pink;
}
.scale2 {
/* specify scaling properties for class scale2 */
transform: scale(0.8);
background-color: brown;
}
</style>
</head>
```

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```
<body>
<center>
  <div class="translate1">Translated:10 px</div>
  <!-- Here class translate1 properties are applied-->
  <div class="translate2">Translated:50 px,20 px</div>
  <!-- Here class translate2 properties are applied-->
  <div class="rotate1">Rotated:20 Degree</div>
  <!-- Here class rotate1 properties are applied-->
  <div class="rotate2">Rotated:50 Degree</div>
  <!-- Here class rotate2 properties are applied-->
  <div class="scale1">scaled: 1.2</div>
  <!-- Here class scale1 properties are applied-->
  <div class="scale2">scaled: 0.8 </div>
  <!-- Here class scale2 properties are applied-->
</center>
</body>
</html>
```

Program Output:



Program No. 6 Write a Program to show current date and time on your web page by using user defined Module

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Program Code:

```
<!DOCTYPE html>
<html>

<head>
    <title>
        print current day and time
    </title>
</head>

<body>
    <script type="text/javascript">
        var myDate = new Date();

        // Array of days.
        var weekday = ['Sunday', 'Monday', 'Tuesday',
            'Wednesday', 'Thursday', 'Friday', 'Saturday'
        ];
        document.write("\tCurrent Date is : " + myDate);

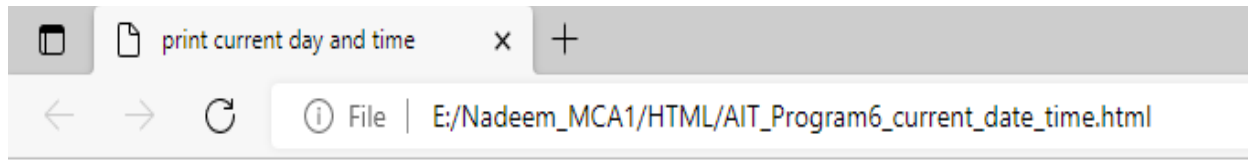
        document.write("<br/>");

        // get hour value.
        var hours = myDate.getHours();
        var ampm = hours >= 12 ? 'PM' : 'AM';
        hours = hours % 12;
        hours = hours ? hours : 12;
        var minutes = myDate.getMinutes();
        minutes = minutes < 10 ? '0' + minutes : minutes;
        var myTime = hours + " " + ampm + " : " + minutes +
            " : " + myDate.getMilliseconds();
        document.write("\tCurrent time is : " + myTime);
    </script>
</body>

</html>
```

Program Output:

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Current Date is : Fri Jun 10 2022 11:24:03 GMT+0530 (India Standard Time)
Current time is : 11 AM : 24 : 631