



COMPUTER MULTIMEDIA & ANIMATION

IV SEM BCA



KRUPANIDHI DEGREE COLLEGE

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**Part A:**

1. Write a HTML/5 program to demonstrate the use of Font family, font variant, font style, and font size.
2. Write a HTML/5 program to display random contents using list properties:
 - a. Ordered list b) Unordered list
3. Write a HTML/5 program to create gradient using CSS.
4. Write a HTML/5 code to demonstrate following CSS animation properties:
 - a. Delay b) Direction c) Duration
5. Write a HTML/5 program to demonstrate key frames
6. Write a HTML/5 code to demonstrate CSS transition and transformation.
7. Write a HTML/5 program to turn on/off a light bulb using JavaScript. Make use of .gif image and buttons.

Part B:

1. Write a HTML/5 program to draw rectangle, line, polygon, polyline using SVG.
2. Write a HTML/5 program to draw linear and radial gradient ellipse using SVG.
3. Write a HTML/5 program to draw a star using SVG.
4. Write a HTML/5 program to draw line, circle, rectangle, gradient, text using canvas.
5. Write a HTML/5 program to demonstrate translation, rotation, scaling, and transform using canvas.
6. Write a HTML/5 program to demonstrate Bezier Curves and Quadratic Curves.
7. Write a HTML/5 program to create canvas and add a red square onto the game area with up/down/left/right controller buttons.
8. Write a HTML/5 canvas program to add random size obstacles with red square controller button.



1. Write a HTML/5 program to demonstrate the use of Font family, font variant, font style, and font size.

```
<!DOCTYPE html>
<html>
<head>
  <title>Font Styles</title>
  <style>
    .text {
      font-family: Arial, sans-serif;
      font-variant: small-caps;
      font-style: italic;
      font-size: 20px;
    }
  </style>
</head>
<body>
  <h1>Font Styles Demo</h1>
  <p class="text">This is a sample paragraph demonstrating different font styles and sizes.</p>
  <p>This is a paragraph with the default font.</p>
  <p style="font-family: 'Courier New', monospace;">This paragraph uses a different font family.</p>
  <p style="font-variant: normal;">This paragraph has normal font variant.</p>
  <p style="font-style: normal;">This paragraph has normal font style.</p>
  <p style="font-size: 24px;">This paragraph has a larger font size.</p>
</body>
</html>
```



2. Write a HTML/5 program to display random contents using list properties:

- a. Ordered list b) Unordered list

```
<!DOCTYPE html>
<html>
<head>
  <title>Random Content Lists</title>
</head>
<body>
  <h1>Ordered List</h1>
  <ol>
    <li>Apple</li>
    <li>Orange</li>
    <li>Banana</li>
    <li>Grapes</li>
    <li>Pineapple</li>
  </ol>

  <h1>Unordered List</h1>
  <ul>
    <li>Red</li>
    <li>Green</li>
    <li>Blue</li>
    <li>Yellow</li>
    <li>Orange</li>
  </ul>
</body>
</html>
```



3. Write a HTML/5 program to create gradient using CSS.

```
<!DOCTYPE html>
<html>
<head>
  <title>Gradient Example</title>
  <style>
    body {
      background: linear-gradient(to right, #ff6699, #ffcc99);
    }
  </style>
</head>
<body>
  <h1>Gradient Example</h1>
  <p>This is an example of a gradient background.</p>
</body>
</html>
```



4. Write a HTML/5 code to demonstrate following CSS animation properties:

a. Delay b) Direction c) Duration

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS Animation Properties</title>
  <style>
    .box {
      width: 100px;
      height: 100px;
      background-color: blue;
      position: relative;
      animation-name: move;
      animation-duration: 3s;
      animation-delay: 1s;
      animation-direction: alternate;
      animation-iteration-count: infinite;
    }

    @keyframes move {
      0% {
        left: 0;
      }
      100% {
        left: 200px;
      }
    }
  </style>
</head>
<body>
  <h1>CSS Animation Properties Demo</h1>
  <div class="box"></div>
</body>
</html>
```



5. Write a HTML/5 program to demonstrate key frames

```
<!DOCTYPE html>
<html>
<head>
  <title>Keyframes Example</title>
  <style>
    .box {
      width: 100px;
      height: 100px;
      background-color: blue;
      position: relative;
      animation-name: move;
      animation-duration: 3s;
      animation-iteration-count: infinite;
    }

    @keyframes move {
      0% {
        left: 0;
        background-color: blue;
      }
      50% {
        left: 200px;
        background-color: red;
        transform: rotate(180deg);
      }
      100% {
        left: 0;
        background-color: blue;
      }
    }
  </style>
</head>
<body>
  <h1>Keyframes Example</h1>
  <div class="box"></div>
</body>
</html>
```



6. Write a HTML/5 code to demonstrate CSS transition and transformation.

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS Transition and Transformation Example</title>
  <style>
    .box {
      width: 100px;
      height: 100px;
      background-color: blue;
      transition: transform 1s, background-color 1s;
    }

    .box:hover {
      transform: rotate(45deg);
      background-color: red;
    }
  </style>
</head>
<body>
  <h1>CSS Transition and Transformation Example</h1>
  <div class="box"></div>
</body>
</html>
```




7. Write a HTML/5 program to turn on/off a light bulb using JavaScript. Make use of .gif image and buttons.

```
<!DOCTYPE html>
<html>
<head>
  <title>Light Bulb On/Off Example</title>
  <style>
    #lightBulb {
      width: 200px;
      height: 300px;
    }
  </style>
</head>
<body>
  <h1>Light Bulb On/Off Example</h1>
  
  <br>
  <button onclick="turnOn()">Turn On</button>
  <button onclick="turnOff()">Turn Off</button>

  <script>
    function turnOn() {
      document.getElementById("lightBulb").src = "light_on.gif";
    }

    function turnOff() {
      document.getElementById("lightBulb").src = "light_off.gif";
    }
  </script>
</body>
</html>
```