

Practical – 5

Working with Multimedia

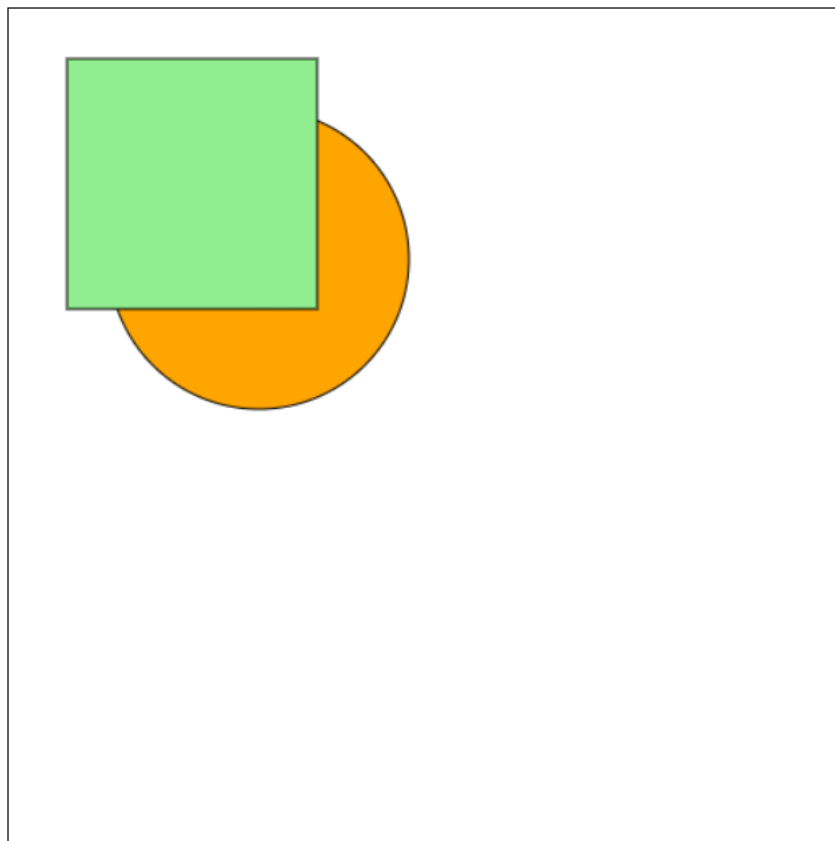
1. Design a simple webpage to whose output is shown below:



HTML Code

```
<html>
  <head>
    <title>
      HTML Practical
    </title>
  </head>
  <body>
    <canvas id="myCanvas" height="500px" width="500px" style="border: 1px solid
black;"></canvas>
    <script>
      var canvas = document.getElementById("myCanvas");
      var c = canvas.getContext("2d");
      c.beginPath();
      c.arc(150,150,90,0,2 * Math.PI);
      c.fillStyle = "orange";
      c.fill();
      c.stroke();
      c.beginPath();
      c.rect(35,30,150,150);
      c.fillStyle = "lightgreen";
      c.fill();
      c.stroke();
    </script>
  </body>
</html>
```

Output



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2. Design a simple webpage to whose output is shown below:



HTML Code

```
<html>
<head>
  <title>
    HTML Practical
  </title>
</head>
<body>
  <canvas id="myCanvas" height="500px" width="500px" style="border: 1px solid
black;"></canvas>
  <script>
    var canvas = document.getElementById("myCanvas");
    var c = canvas.getContext("2d");

    c.beginPath();
    c.rect(20,20,200,80);
    c.fillStyle = "yellow";
    c.fill();
    c.strokeStyle = "red";
    c.stroke();

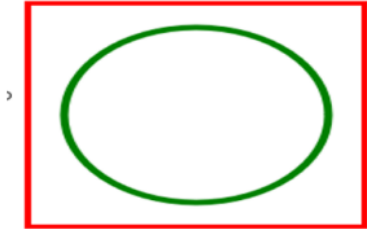
    c.font = "40px Arial";
    c.fillStyle = "red";
    c.fillText("Hello",70,70);
  </script>
</body>
</html>
```

Output

Hello

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3. Let us take the same 200x200 pixel canvas. Draw a red rectangle and a green circle within the rectangle.



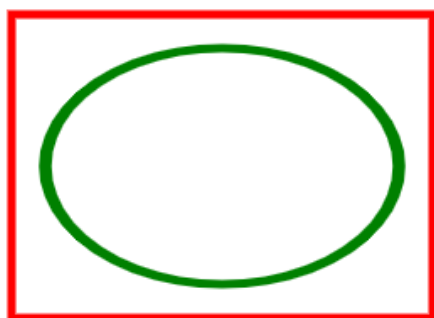
HTML Code

```
<html>
  <head>
    <title>
      HTML Practical
    </title>
  </head>
  <body>
    <canvas id="myCanvas" height="500px" width="500px" style="border: 1px solid
black;"></canvas>
    <script>
      var canvas = document.getElementById("myCanvas");
      var c = canvas.getContext("2d");

      c.beginPath();
      c.rect(100,100,250,180);
      c.strokeStyle = "red";
      c.lineWidth = 5;
      c.stroke();

      c.scale(1.5,1);
      c.beginPath();
      c.arc(150,190,70,0,Math.PI * 2,false);
      c.strokeStyle = "green";
      c.stroke();
    </script>
  </body>
</html>
```

Output



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4. Design a simple webpage to whose output is shown below:



HTML Code

```
<!DOCTYPE html>
<html>
  <head>
    <title>Face</title>
  </head>
  <body>
    <canvas width="200px" height="200px" id="four" style="background-color:
grey;"></canvas>
    <script>
      const a = document.getElementById("four");
      const ctx = a.getContext("2d");
      ctx.beginPath();
      ctx.arc(100,100,70,0,360);
      ctx.strokeStyle = "black";
      ctx.stroke();
      ctx.fillStyle = "white";
      ctx.fill();
      ctx.closePath();
      ctx.beginPath();
      ctx.arc(80,80,10,0,2*Math.PI);
      ctx.strokeStyle = "black";
      ctx.stroke();
      ctx.closePath();
      ctx.beginPath();
      ctx.arc(120,80,10,0,2*Math.PI);
      ctx.strokeStyle = "black";
      ctx.stroke();
      ctx.closePath();
      ctx.strokeStyle = "black";
      ctx.strokeRect(95,100,10,20);
      ctx.beginPath();
      ctx.moveTo(80,135);
```

```
    ctx.lineTo(120,135);  
    ctx.stroke();  
    ctx.closePath();  
</script>  
</body>  
</html>
```

Output



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5 . Display a simple webpage to whose output is shown below:



HTML Code

```
<html>
<head>
  <title>HTML Practical</title>
</head>
<body>
  <canvas
    id="myCanvas"
    height="500px"
    width="500px"
    style="border: 1px"
  ></canvas>
  <script>
    var canvas = document.getElementById("myCanvas");
    var c = canvas.getContext("2d");
    c.beginPath();
    c.rect(90, 100, 250, 180);
    c.lineWidth=5;
    c.stroke();
    c.beginPath();
    c.arc(150, 150, 30, 0, Math.PI * 2);
    c.strokeStyle = "blue";
```

```
c.stroke();

c.beginPath();
c.arc(179, 179, 30, 0, Math.PI * 2);
c.strokeStyle = "yellow";
c.stroke();


c.beginPath();
c.arc(215, 150, 30, 0, Math.PI * 2);
c.strokeStyle = "black";
c.stroke();
c.beginPath();
c.arc(249, 180, 30, 0, Math.PI * 2);
c.strokeStyle = "green";
c.stroke();
c.beginPath();
c.arc(280, 150, 30, 0, Math.PI * 2);
c.strokeStyle = "red";
c.stroke();
c.font = "30px Arial bold";
c.fillText("Culterville - 2022", 110, 250);
</script>
</body>
</html>
```

Output



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6. To create a web page which includes a map and display the related information when a hot spot is clicked in the map. [Hint three places New Delhi, Calcutta and TamilNadu]

| | |
|--|---|
| <p>The map and area elements</p> <p>Click on the Hotspots to go to a new page and read more about the Places:</p>  | <p>Chennai is the capital of Tamil Nadu and More IT companies are camped at Chennai</p> <p>Home Page</p> |
| <p>Delhi is the capital of our INDIA and More IT companies are Camped at Delhi</p> <p>Home Page</p> | <p>Calcutta is the wealthy city in WEST BENGAL and It has Famous "Sunderbans Forests"</p> <p>Home Page</p> |

HTML Code

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>image map</title>
</head>
<body>
  
  <map name="india">
    <area shape="rect" coords="245,260,264,280" href="delhi.html" alt="delhi">
    <area shape="circle" coords="541,424,50" href="calcutta.html"
alt="calcutta">
    <area shape="poly" coords="225,765,338,713,254,871,304,828"
href="chennai.html" alt="chennai">
  </map>
</body>
</html>
```

HTML Code (Calcutta)

```
<html>
  <head>
    <title>Calcutta</title>
  </head>
  <body bgcolor="lightblue">
    <i><h1 style="color:red">Calcutta is the wealthy city in WEST BENGAL</h1>
    <p style="color:red">It has famous "Sunderbans Forests"</p></i>
    <a href="p6.html">Home Page</a>
  </body>
</html>
```

HTML Code (Chennai)

```
<html>
  <head>
    <title>Chennai</title>
  </head>
  <body bgcolor="cyan">
    <i><h1 style="color:rgb(158, 158, 9)">chennai is the captal of Tamil
Nadu</h1>
    <p style="color:rgb(158, 158, 9)">More IT companies are camped at
Channai.</p></i>
    <a href="p6.html">Home Page</a>
  </body>
</html>
```

HTML Code (Delhi)

```
<html>
  <head>
    <title>delhi</title>
  </head>
  <body bgcolor="lightblue">
    <i><h1 style="color:red">Delhi is the capital of our INDIA</h1>
    <p style="color:red">More IT companies are camped at Delhi</p></i>
    <a href="p6.html">Home Page</a>
  </body>
</html>
```

Output



Delhi is the capital of our INDIA

More IT companies are camped at Delhi

[Home Page](#)

chennai is the captal of Tamil Nadu

More IT companies are camped at Channai.

[Home Page](#)

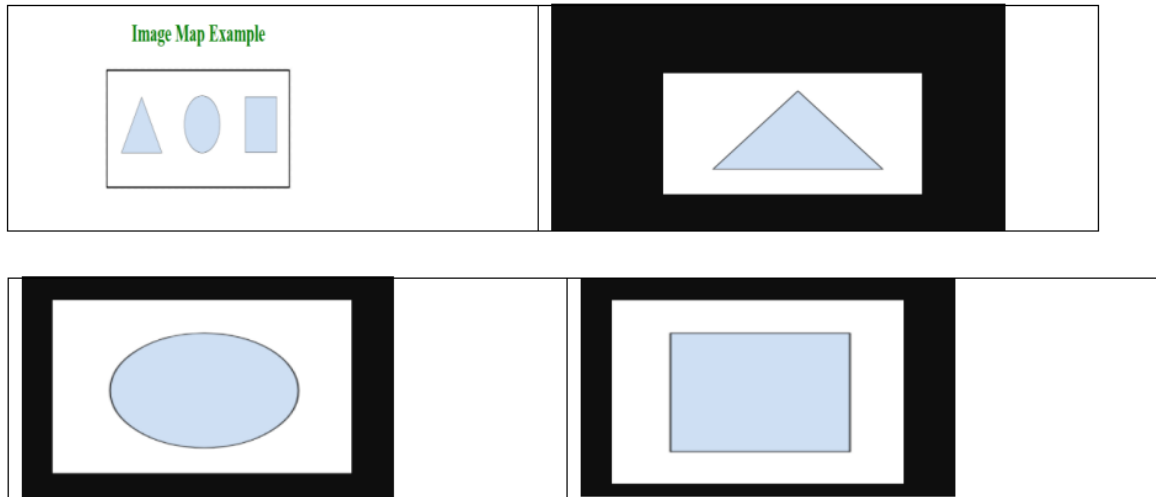
Calcutta is the wealthy city in WEST BENGAL

It has famous "Sunderbans Forests"

[Home Page](#)

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7. Design a webpage whose output is shown below. When user click the shape then another page should be open showing the corresponding figure which was clicked.



HTML Code

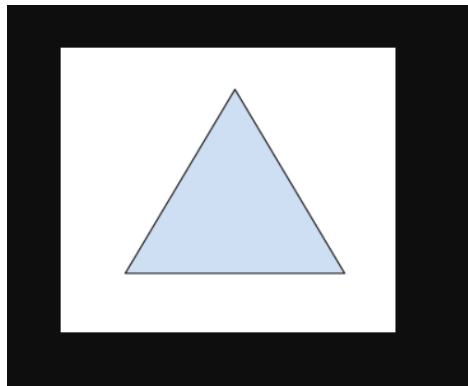
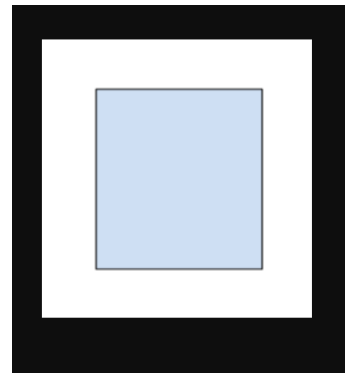
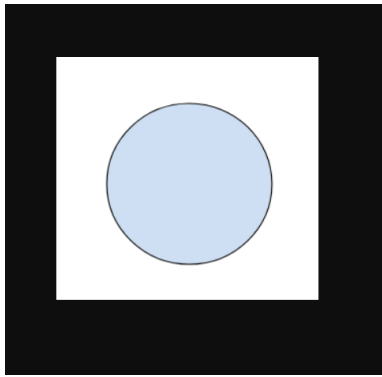
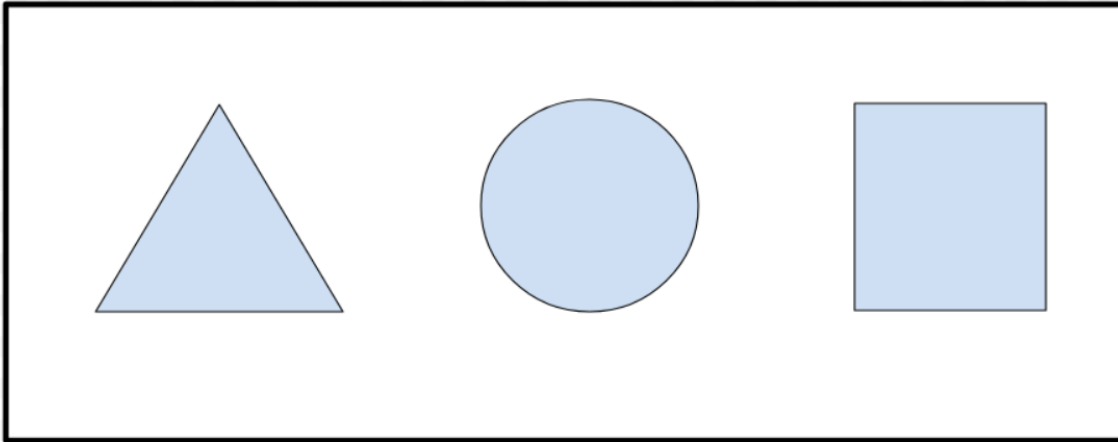
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>image map</title>
</head>
<body>

  <h1 style="color:green">Image Map Example</h1>

  
  <map name="area">
    <area shape="rect" coords="658,83,807,242" href="area4.png" alt="delhi">
    <area shape="circle" coords="454,158,80" href="area3.png" alt="calcutta">
    <area shape="poly" coords="169,87,79,242,267,242" href="area2.png"
alt="chennai">
  </map>
</body>
</html>
```

Output

Image Map Example



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8. Design a web page has two logical section – the first one only uses the figure markup element and the second uses both figure as well as figcaption.

HTML Code

```
<html>
<head>
  <title>HTML Practical</title>
</head>
<body>
  <h1>Figure and Figcaption in HTML</h1>
  <div>
    <figure>
      
    </figure>
  </div>
  <div>
    <figure>
      
      <figcaption>Indian Map</figcaption>
    </figure>
  </div>
</body>
</html>
```


Output

Figure and Figcaption in HTML



Indian Map

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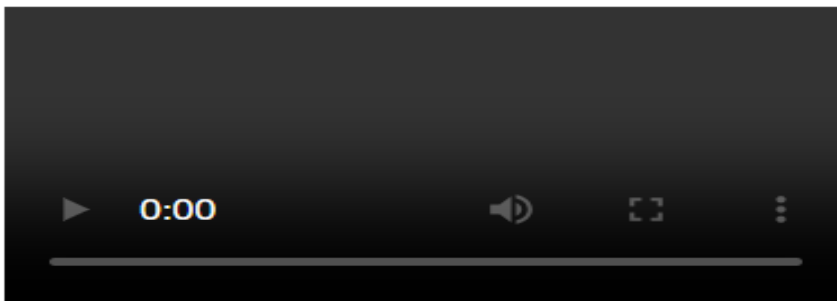
9. Design a webpage to implement audio and video.

HTML Code

```
<html>
<head>
  <title>HTML Practical</title>
</head>
<body>
  <h1>Video Element</h1>
  <video controls>
    <source src="video.mp4" type="video/mp4" />
  </video>
  <h1>Audio Element</h1>
  <audio controls>
    <source src="audio.mp3" type="audio/mp3" />
  </audio>
</body>
</html>
```

Output

Video Element



Audio Element

