MODULE: 3 (HTML 5)

1. What are the new tags added in HTML5?

> List of tags are added:
> article, aside, audio, canvas, output, video, details, datalist, header, footer, nav, meter, mark, progress.
> Related to input tag:
> color, date, datetime-local, datetime, email, month, number, range, search, tel, time, url, week.

2. How to embed audio and video in a webpage?

```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>Media Tag</title>
</head>
<body>
    <h1>Video tag</h1>
    <video src="SampleVideo_1280x720_5mb.mp4" height="200px"></video>
    <video src="SampleVideo_1280x720_5mb.mp4" controls height="200px"></video>
    <video src="SampleVideo_1280x720_5mb.mp4" controls autoplay height="200px"></video>
    <video src="SampleVideo_1280x720_5mb.mp4" controls autoplay muted
height="200px"></video>
    <video src="SampleVideo_1280x720_5mb.mp4" controls autoplay muted loop
poster="desktop.png" height="200px"></video>
    <video src="SampleVideo_1280x720_5mb.mp4" controls
poster="Avatar_(2009_film)_poster.jpg.webp" height="200px"></video>
    <hr>
    <h1>Picture tag</h1>
    <picture>
    <source media="(min-width: 900px)" srcset="desktop.png" sizes="">
    <img src="mobile.png" alt="" width="200px" height="200px">
</picture>
<br>
<audio src="file_example_MP3_700KB.mp3"></audio>
<audio src="file_example_MP3_700KB.mp3" controls></audio>

</body>
</html>
```

3. Semantic element in HTML5?

➢ Semantic element clearly describes its meaning both the browser and developer.

➢ List of semantic elements are:

   I.   <article>
   II.   <aside>
   III. <details>
   IV. <Header>
   V.   <Footer>
   VI. <main>
   VII. <mark>
   VIII. <nav>
   IX. <summary>
   X.   <time>
   XI. <figure>
   XII. <figcaption>

4. Canvas and SVG tags

➢ Canvas is used to draw graphics.

➢ In canvas element we must use Javascript to draw a graphics.

Ex

➢
```
<!DOCTYPE html>
<html>
<body>

    <canvas id="myCanvas" width="200" height="100"
style="border:1px solid #000000;">
</canvas>

</body>
</html>
```

➢ SVG stands for Scalable Vector Graphics.

➢ SVG is used to define graphics for the web.

```
<svg width="100" height="100">

 <circle cx="50" cy="50" r="40"

 stroke="green" stroke-width="1" fill="yellow" />

</svg>
```