**Module 3 Assignment**

HTML 5

Q1. What are the new tags added in HTML5?

Ans. Structural: <header>, <nav>, <article>, <section>, <footer>, <aside>, <main>

Media: <audio>, <video>, <source>, <track>

Forms: <datalist>, <output>, <progress>, <meter>, <keygen> (deprecated)

Graphics: <canvas>, <svg>

Q2. How to embed audio and video in a webpage?

Ans.

To embedd audio file in html5:-

<audio controls>

<source src=”audio-file.mp3" type="audio/mpeg">

Your browser does not support the audio element.

</audio>

To embedd video file in html5:-

<video controls width="600">

<source src="video-file.mp4" type="video/mp4">

Your browser does not support the video element.

</video>

Q3. Semantic element in HTML5?

Ans. Semantic elements in HTML5 define the meaning and structure of content.

* **<header>**: Defines introductory content or a group of navigation links.
* **<nav>**: Represents a section of navigation links.
* **<article>**: Represents self-contained, independent content.
* **<section>**: Defines a section of content, grouped by theme.
* **<footer>**: Represents the footer of a document or section.
* **<aside>**: Content related to the main content.
* **<main>**: Represents the main content of a document.
* **<figure>**: Groups media content, like images, with captions.
* **<figcaption>**: Defines a caption for a <figure>.

Q4. Canvas and SVG tags

Ans. **<canvas>:**

* **Purpose**: For drawing 2D graphics using JavaScript.
* **Type**: Pixel-based (loses quality when scaled).
* **Use Cases**: Games, animations, dynamic/interactive graphics.
* **Example**: <canvas id="myCanvas" width="400" height="300"></canvas>

**<svg>:**

* **Purpose**: For vector-based graphics (XML format).
* **Type**: Scalable without loss of quality.
* **Use Cases**: Logos, icons, static illustrations, charts.
* **Example**: <svg width="400" height="300"> <rect width="150" height="100" fill="red" /> </svg>