Advanced Internet To	echnologies ((IT23L)
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Roll	NO.		

Exam No. _____

Dr D Y Patil Educational Enterprises Charitable Trust's **DR D Y PATIL SCHOOL OF MCA**

Dr. D.Y. Patil Knowledge City, Charholi (Bk.), Via Lohegaon, Pune – 412105



CERTIFICATE

This is to certify that	
Mr./ Miss	, Of Class
MCA - First year (Sem- II) Div Roll No	Has completed all the
practical work in the subject Advanced Interne	t Technologies (IT23L)
satisfactorily in the Department of MCA as prescribed	бу University of Pune, in
the academic year 2022 - 2023.	
University Seat No	

Staff In-charge

Head of the Department

Director

Dr. D.Y. Patil School Of MCA

MCA

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Dr D Y Patil Educational Enterprises Charitable Trust's **DR D Y PATIL SCHOOL OF MCA**

Dr. D.Y. Patil Knowledge City, Charholi (Bk.), Via Lohegaon, Pune – 412105

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 What is HTML5? HTML5 is the latest and most enhanced version of HTML. Technically, HTML is not a programmi language, but rather a markup language. In this tutorial, we will discuss the features of HTML5 and how to use it in practice. HTML5 is a cooperation between the World Wide Web Consortium (W3C) and the Web Hypertext Application Technology Working Group (WHATWG). The new standard incorporates features like video playback and drag-and-drop that have been previously dependent on third-party browser plug-ins such as Adobe Flash, Microsoft Silverlight, at Google Gears. 	Basic Concept Evolution of Mar Hypertext These doc HTML ca character What is H HTML5 i language, how to us HTML5 i Application	t Html rkup Languages t Markup Language (HTML) is a syntax used to format a text document on the web. cuments are interpreted by web browsers such as Internet Explorer and Netscape Navigator. an be created as standard ASCII text with "tags" included to pass on extra information about formatting and page layout to a web browser. HTML5? is the latest and most enhanced version of HTML. Technically, HTML is not a programming but rather a markup language. In this tutorial, we will discuss the features of HTML5 and se it in practice. is a cooperation between the World Wide Web Consortium (W3C) and the Web Hypertext on Technology Working Group (WHATWG). standard incorporates features like video playback and drag-and-drop that have been y dependent on third-party browser plug-ins such as Adobe Flash, Microsoft Silverlight, and

HTML5 Elements

- HTML5 elements are marked up using start tags and end tags. Tags are delimited using angle brackets with the tag name in between.
- HTML5 tag names are case insensitive and may be written in all uppercase or mixed case, although the
 most common convention is to stick with lowercase.
- Most of the elements contain some content like ... contains a paragraph. Some elements, however, are forbidden from containing any content at all and these are known as void elements. For example, br, hr, link, meta, etc.
- Elements of an HTML document are denoted using HTML tags. An HTML tag usually consists of a left angle bracket (<) a tag name and a right angle bracket (>).
- Tags are also usually paired (e.g. <P> and </P>), the first is used to identify the beginning of the element and the second (usually </tag name>) identifies the end of the element.
- Some tags may also contain additional information. This information should be placed inside the angle brackets. For example, to display a paragraph using full justification use <P ALIGN="justify">.
- HTML documents have a minimum requirement of tags.
- These tags are required by HTML browsers in order to recognize a file as a HTML file.

• The following is a summary of the required HTML tags:

Begin Tag	End Tag	Summary
<html></html>		This element informs HTML browsers that the following code contains HTML-coded information. The file extension .html also indicates an HTML document and must be used. You may replace.html by .htm if you are restricted to three digit file extensions.
<head></head>		This element identifies the first section of your html. HTML is broken into two sections, the head and the body. The head section contains the title of your document, search engine information, and more advanced information such as Java functions.
<title></td><td></title>	The title is not part of the document text. The title is usually used by the browser to label the display window. Some search engines also use the title to search on. The title should be kept short and sufficient to identify the document.	
<body></body>		The body element contains the contents of the document. Any information to be displayed in the document and any necessary formatting tags should be contained inside the body tags.

	Advanced Internet Technologies (IT23L)
Assignment No.	.: 2
Title of Assignn	nent: Program to implement Audio and Video features for your web page.
Date:	
Remark:	
Sign:	
Problem Stat	ement:
Create Objective:	e an web base Program to implement Audio and Video features for your web page.
	What is Audio and video element in HTML5 ?
	What is basic Stucture of Audio element in HTML5?
	What is basic Stucture of Video element in HTML5?
HTML5 - Audio	o Tag
	udio> and <video> tags make it simple to add media to a website. You need to set src attributed a source and include a controls attribute so the user can play and pause the media.</video>
<html></html>	
<body></body>	
<audio contr<="" td=""><td>rols autoplay></td></audio>	rols autoplay>
<source sro<="" td=""/> <td>c = "/html5/audio.ogg" type = "audio/ogg" /></td>	c = "/html5/audio.ogg" type = "audio/ogg" />
<source sro<="" td=""/> <td>c = "/html5/audio.wav" type = "audio/wav" /></td>	c = "/html5/audio.wav" type = "audio/wav" />
Your brow	ser does not support the <audio> element.</audio>
Dr. D.Y. Patil So	chool Of MCA MCA 7

```
</body>
```

</html>

HTML5 video Element

The newly introduced HTML5 <video> element provides a standard way to embed video in web pages. However, the video element is relatively new, but it works in most of the modern web browsers.

Inserting video onto a web page was not relatively easy, because web browsers did not have a uniform standard for defining embedded media files like video.

To demonstrates some of the many ways of adding videos on web pages, from the latest HTML5 < video> element to the popular YouTube videos.

```
<video controls="controls" src="media/shuttle.mp4">
```

Your browser does not support the HTML5 Video element.

```
</ri><video><video controls="controls"><source src="media/mysong.mp4" type="video/mp4"><source src="media/mysong.ogv" type="video/ogg">
```

Your browser does not support the HTML5 Video element.

</video>

Advanced Internet T	Technologies (IT23L
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Assignment No.: 3

Title of Assignment: Write HTML Programs design different geometrical shapes using Canvas and SVG (minimum 5 Shapes).

Date:

Remark:

Sign:

Problem Statement:

Create HTML Programs to design different geometrical shapes using Canvas and SVG (minimum 5 Shapes)..

Objective:

Canvas

HTML5 element <canvas> gives you an easy and powerful way to draw graphics using JavaScript. It can be used to draw graphs, make photo compositions or do simple (and not so simple) animations.

- HTML5 element <canvas> gives you an easy and powerful way to draw graphics using JavaScript. It can be used to draw graphs, make photo compositions or do simple (and not so simple) animations.
- Here is a simple <canvas> element which has only two specific attributes width and height plus all the core HTML5 attributes like id, name and class, etc.
- <canvas id = "mycanvas" width = "100" height = "100"></canvas>
- You can easily find that <canvas> element in the DOM using getElementById() method as follows
- var canvas = document.getElementById("mycanvas");

HTML5 - SVG

SVG stands for Scalable Vector Graphics and it is a language for describing 2D-graphics and graphical applications in XML and the XML is then rendered by an SVG viewer.

SVG is mostly useful for vector type diagrams like Pie charts, Two-dimensional graphs in an X,Y coordinate system etc.

```
<br/>
<br/>
<br/>
<br/>
<h2 align = "center">HTML5 SVG Circle</h2>
<br/>
<svg id = "svgelem" height = "200" xmlns = "http://www.w3.org/2000/svg">
<br/>
<circle id = "redcircle" cx = "50" cy = "50" r = "50" fill = "red" />
</svg>
</body>
</html>
```