

# Jaypee University of Engineering & Technology-Guna

## 18B17CI674- Web Development Lab

### Lab Exercise-4

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**Title:** Using HTML Semantic Tags

**Mode:** Self Learning

**Objective:** To develop a basic HTML tutorial website.

**Outcomes:**

1. Students will be able to learn the use of semantic tags.
2. Students will be able to create an educational website.
3. Students will be able to apply the knowledge acquired in the last labs.

**Methodology:** Students will create a simple HTML learning website “iLearn” that will use the appropriate HTML semantic tags at appropriate places.

**Steps:**

- (1) Create the basic HTML page framework that is used to write any HTML document. {Hint: all basic page structuring tags- <html>, <head>, and <body>}
- (2) Find a suitable title for your webpage. Title should be visible on the title bar of your browser.
- (3) Specify what this page is about, who is the author, and specific keywords to this page so that search engines could easily find the necessary information. And yes! Your single page website should be properly viewable irrespective of the devices. Don't forget to specify that this page is going to use character encoding type UTF-8.
- (4) Since title you created above cannot be elaborated, therefore, start your page by writing the elaborated title, “Learn Simple HTML in 30 Minutes with iLearn”, as heading.
- (5) Starting your educational website with a quote from Mahatma Gandhi is a perfect idea. Do write this quote: “Live as if you were to die tomorrow; learn as if you were to live forever.” {Hint: use appropriate semantic tag}
- (6) Write a new heading “Topics” detailing contents of this website and their brief description (eg. Possible topics can be “About HTML”, “Basic Tags”, “Semantic Tags”). By clicking on the topics, users may switch to topics of their choice without unnecessary

scrolling. {Hint: You will need to use anchor tag <a> for linking different sections of this page to the topics.}

- (7) Write your first topic about "About HTML". Since HTML is just an abbreviation, you need to define this at the first stance of its use. There onwards you can freely use the term HTML. {Hint: different semantic tags are required for the first use and regular use}

- (8) While describing different topics, do write demo code snippets. E.g. a possible explanation for the <em> tag can be:

<em> tag is a semantic tag and is used to emphasize text. Browsers often use italic style to emphasize the text. Here is the code demonstration-

```
<html>
```

```
<body>
```

```
<p> This world is going to live so long as its <em>inmates</em> </p>
```

```
</body>
```

```
</html>
```

{Hint: There is a special semantic tag for writing codes. You will also need to use escape sequences.}

- (9) You will also create an image map of a written HTML code image. By clicking on parts of the image, users should be able to view the relevant information. Use image "html.png" provided with this lab exercise.

- (10) At the bottom of the page, include your name, contact and copyright information (called signature). Also include the most recent revision date. {Hint: A semantic tag is available for doing so}

Do the following:

- separate the signature from the text with a rule line.
- include the most recent revision date.
- add your name as the webmaster followed by a link to email you {hint: <a href=<mailto:shesh@juet.ac.in>> .....</a>}
- add a basic copyright (with a copyright symbol indicated by the numeric escape &#169;)

*Last Updated: Jan 28, 2019*

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- (11) Discuss with your lab instructor in case of any doubt.

- (12) Get your work evaluated in the same lab.