**Django**

* A python framework for development of web application
* MVT (Model View Template) architecture

**Front End Technologies**

* HTML
* CSS, Bootstrap
* JavaScript, JQuery

**Front End Technologies**

* Python

**Database**

* Sqlite
* MySQL

**Django Project Setup**

* pip install django
* django-admin startproject project\_name .
* python manage.py runserver

**HTML (Hyper Text Markup Language)**

* used to create web pages
* It defines contents of web pages, heading, paragraph, list, image table etc.
* HTML is all about tags and their attributes

|  |
| --- |
| <!DOCTYPE html>  <html lang="en">  <head>  <title>Welcome</title>  <meta charset="UTF-8" />  </head>    <body>  <h1 align="center">HTML</h1>  </body>  </html> |

|  |  |
| --- | --- |
| Heading Tag | <h1>Text</h1> <h6>Text</h6> |
| Paragraph Tag | <p>Text</p> |
| Lists   1. Unordered List 2. Ordered List 3. Definition List | <ul><li>Item 1</li>><li>Item 2</li></ul>  <ol><li>Item 1</li>><li>Item 2</li></ol>  <dl><dt>Title</dt>><dd>Details</dd></dl> |
| Formatting Tags | b, u, i, sup, sub, pre, em, strike, del, strong |
| Character Entities | &npsp; &copy; &reg; |
| Table | <table><tr><td></td></tr></table> |
| Image Audio Video | <img src="himal.jpg" alt="Himal Image" />  <audio controls>  <source src="audio.mp3" type="audio/mp3" />  <source src="audio.ogg" type="audio/ogg" />  </audio>    <video controls>  <source src="video.mp4" type="video/mp4" />  <source src="video.ogg" type="video/ogg" />  </video> |
| iframe | <iframe src=" " title=" " frameborder="0"></iframe> |
| Hyperlinks  Anchor Tag | <a href="https://www.google.com/" target="\_blank">Google</a>  <a href="second.html">Second Page</a>    <a href="#top">Go to Top</a> |
| Forms | <label>Name</label>  <input type="text/password/radio/checkbox/email/url/range/number/date/file/submit/button/reset" name="Fullname" required  maxlength="5" placeholder="Enter Name" />  <select name=””><option value=””></option></select>  <textarea></textarea>  <button type=”submit/button/reset”></button> |

**CSS (Cascading Style Sheet)**

1. Inline CSS: style as attribute
2. Embedded CSS: style as tag
3. External CSS: style as file

* Text Properties
* Box Properties

height, width, background, border, border-radius, margin, padding

* Floating & Positioning

float, clear, display, position, top, right, bottom, left z-index

* Transform, transition, animation

|  |  |
| --- | --- |
| Universal | \*{} |
| Tag selector | P{} h1{} |
| Id Selector | #id\_name{} |
| Class Selector | .class\_name{} |
| Multiple Element Selector | P, h1, #id\_name, .class\_name{} |
| Descendant Selector | p strong{} #my\_div h1{} |
| Child Selector | #my\_div > h1{} ul > li{} |
| Nth child selector | p:nth-child(n) {} |
| Sibling Selector | p ~ h1{} |
| Adjacent sibling | P + h1{} |
| Pseudo Element | h1::first-letter{} p::first-line{} h1::before{} h1::after{} |
| Pseudo class | a:hover{} a:active{} a:visited{} a:link{} |
| Attribute selector | a[target=”\_blank”]{} input[type="text"]{} |