

MVC: Model View Controller

1. **View** - Frontend
 - 1.1. Html5
 - 1.2. Css3
 - 1.3. Js
 - 1.4. Bootstrap
 - 1.5. JQuery
 - 1.6. Angular
 - 1.7. React js
2. **Controller** - Backend
 - 2.1. Php
 - 2.2. Java
 - 2.2.1. Core java
 - 2.2.2. Advanced java
 - 2.2.3. Spring Boot
 - 2.3. Python
 - 2.4. .net
 - 2.5. c#
 - 2.6. R
3. **Model** - Database Connectivity
 - 3.1. Mysql
 - 3.2. Postgre

SDLC - Software Development Life Cycle

1. Requirement gathering & Requirement Analysis - User Stories
 - 1.1. User Requirement Specification
 - 1.2. Customer Requirement Specification
2. Design - Architects
 - 2.1. High level Design
 - 2.2. Low level Design
3. Development - Java, Python, R - White box testing
4. Testing
5. Deployment
6. Maintenance

Java: Language

Computer - binary Language (1,0)

Int age = 23; - keyword identifier = value;

1. Compilers - File
2. Interpreter - Line to Line

C, C++ - High level Languages - Compilers

Java, Python - Compilers & Interpreters

Js - interpreters

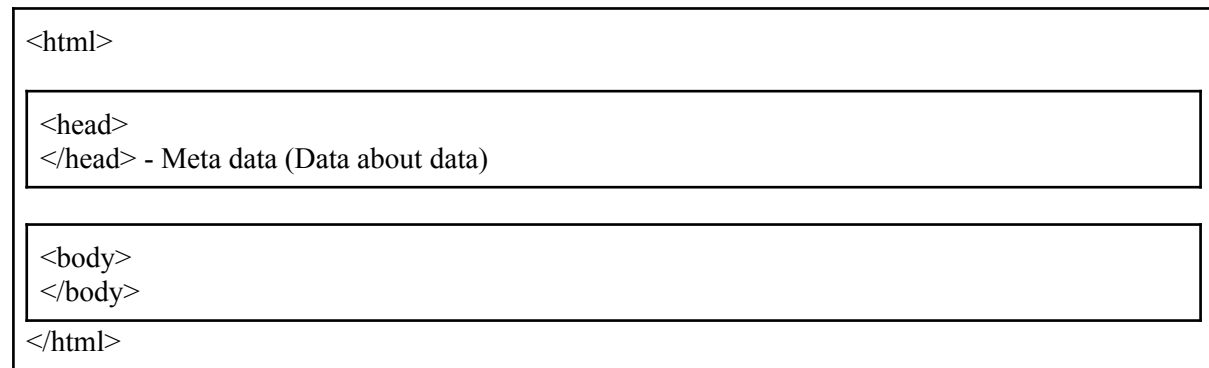
HTML5: Hyper Text Markup Language

Hyper Text - Text Within a Text / Text about a text

Syntax: <h1>HELLO</h1>

- <h1> - Open Tag
- HELLO - Content
- </h1> - Close Tag
- H1 - Element

<!DOCTYPE HTML>



Setup:

- Editor - Notepad, Notepad++, IDE (VSCode, Sublime text)
- Browser

VSCode download → System Installer

Index.html

Shift + 1 (Enter)

Extensions: Line Server → Ritwick Dey
Go Live

```

<h1>---</h1>
<h2>---</h2>
<h3>---</h3>
-----
-----
<h6>---</h6>
<h7>---</h7>

```

Lorem5 (Enter)

Right click → Open with Live server

```
<p>-----</p>
```

```

```

- Src - Property name
- — - Property Value

Create Folder img

- Absolute path position (root) - From Google
- Shortcut path position (Relative) - img/1.jpg

Assignment-1:

AP Districts → 5

Each page for each district → Description → Paragraph



home.html



about.html



contact.html

Website - Collection of pages

`home`

Href → Hyper refer

`target=""_blank"` → New tab

`download=""sample"`

Mail to

List:

1. Order list - `` ``
2. Unordered list - ``
3. Description list - `<dl></dl>` `<dt></dt>` `<dd></dd>`

Order list:

``

``

``

``

`<ol type=""A">`

`<ol type=""a">`

`<ol type=""i">`

`<ol type=""I">`

Unorder list:

``

``

`<ul type=""circle">`

`<ul type=""square">`

<ul type="none">

Description list:

<dl>

<dt>

<dd>

</dd>

</dt>

</dl>

Table:

| | | |
|--|--|--|
| | | |
| | | |
| | | |

<table border = "2">

<tr>

<th colspan = "2" rowspan = "2">

</th>

</tr>

<tr>

<td>

</td>

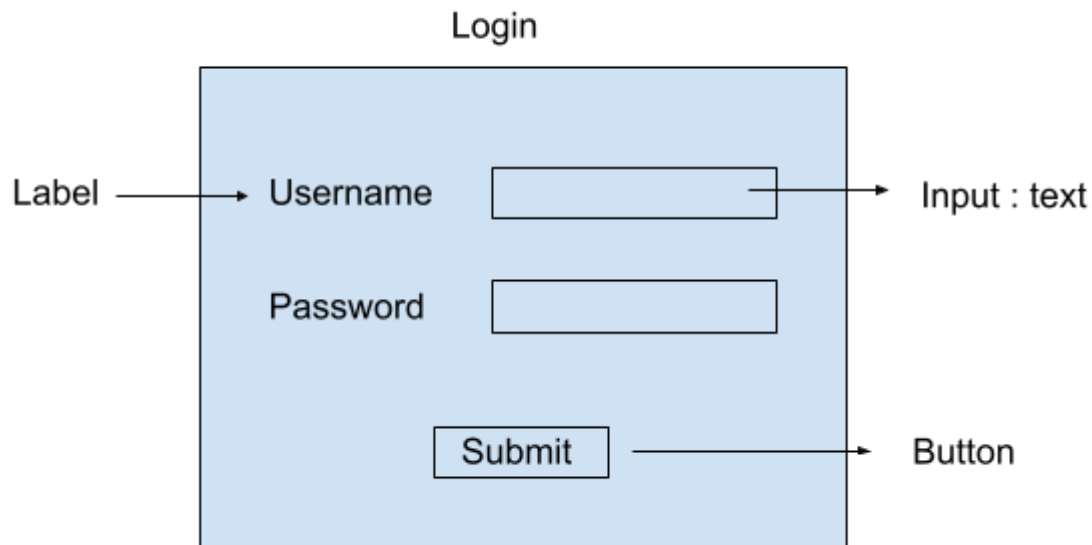
</tr>

</table>

Forms:

Input:

- Text
- Radio
- Checkbox
- Dropdown
- Label



```

For = “ “ id = “ “
<form action = “”>
<input type = “text”>
<label for = “un”>User Name:</label>
<input type = “text” id = “un” placeholder = “Enter Username”>
<br>
<label for = “pwe”>Password:</label>
<input type = “Password” name = “ “ placeholder = “Enter Password”>
<br>
<input type = “Submit” value = “Submit”>
<label for = “gn”>Gender:</label>
<input type = “radio” name = “ “ id = “gn”>Male
“
“
<br>
<label for = “email”>Email</label>
<input type = “email” name = “ “ id = “email” placeholder = “Enter Email”>
<br>
<label for = “Country”>Country</label>
<input type = “Checkbox” name = “ “ id = “Country”>IND
<br>
<label for = “State”>State</label>
<select name = “ “ id = “state”>
    <option value = “select”>Select</option>
    <option value = “ap”>AP</option>
</select>
<label for = “dob”>DOB:</label>
<input type = “date” name = “ “ id = “dob”>
<br>
<label for = “Upload”>Upload</label>
<input type = “file” name = “ “ id = “upload”>
<br>
<input type = “search” name = “ “ id = “ “>
  
```

CSS:

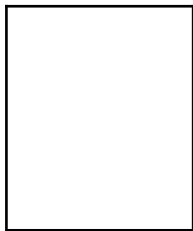
Element_Selector

```
{  
    Property name: property value;  
    "  
}
```

```
<h1>Hello</h1>
```

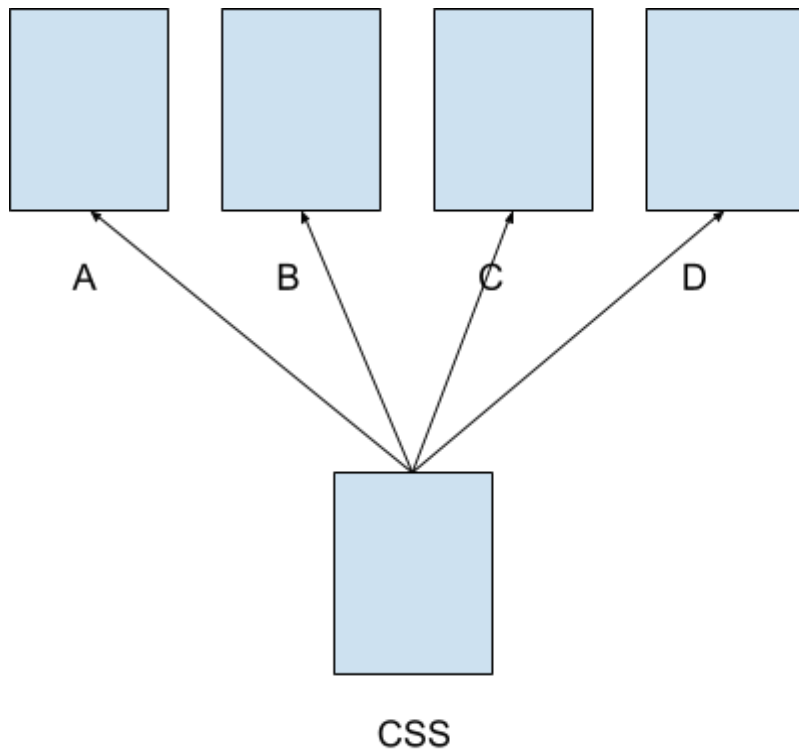
```
H1 {  
    Color:  
    Fontsize:  
}
```

- **Inline** - `<h1 style = "color:red">HTML</h1>`
- **Internal**



home.html

- **External**



```
<h1 style = "color: red; text-align:center;">....</h1>
```

```
<style>
```

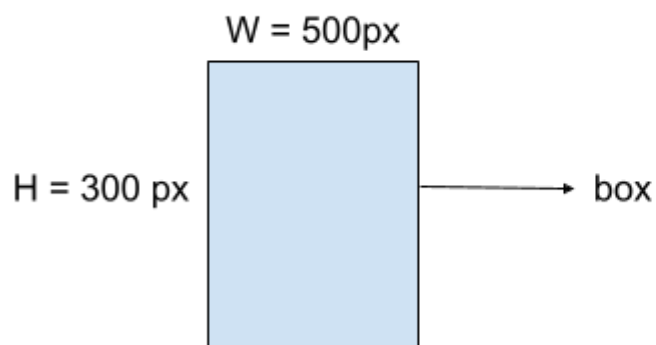
```
    H1 {  
        Color:blue;
```

```
        Text-align:center;
    }
</style>
```

Sty.css:

```
Body{
    Background-color:burlywood;
}
<link rel = "stylesheet" href = "sty.css">
```

Div:



```
<div>
```

1. Element name (div)
2. Id (#)
3. Class (.)
4. *

```
Div{
    Width: 300px;
    Height: 400px;
    Background-color: red;
}
```

```
#box1 {
    Width: 200px;
    Height: 300px;
    Background-color: rebeccapurple;
}
```

```
#box2.box21 {
    Width: 400px;
    Height: 200px;
    Background-color: crimson;
}
```

```
<div></div>
```

```
<div id = "box1"></div>
```

```
<div id = "box2">
```

```
<div class = "box21">  
</div>  
</div>
```

Assignment-2:

Table: Online Billing

Sample billing slips

Invoice - 2

Forms:

| Personal Details |
|------------------|
| |
| |
| |
| |

| Salary Details |
|----------------|
| |
| |
| |
| |

| Employee Details |
|------------------|
| |
| |
| |
| |

Container:


```
<form action = “ “>
<fieldset>
  <legend>Personal Details</legend>
  <label for = “fn”>First Name</label>
  <input type = “text” id = “fn”
```

Background:

- Bg-color
 - Color-name
 - RGB(0-255)
 - Hexa(#FFFF)
- Bg-image
 - Position
 - Size
- Linear gradient
- Blend

```
<div class = “Container”>
```

```
<style>
.container{
  Width: 50%;
  Height: 400 vh;
  Background-color: chocolate;
}
```

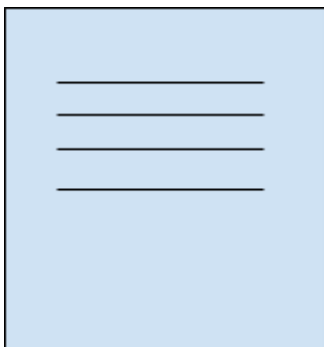
```
background-image:url(img/2.jpeg);
Background-position:center;
Background-size:cover;
```

Background-repeat:no-repeat;
background:linear-gradient(to left/right, rgba(0,0,0,0.6), rgba(0,0,0,0.6), url(img/));
0.6 → 0.0 - 0.9

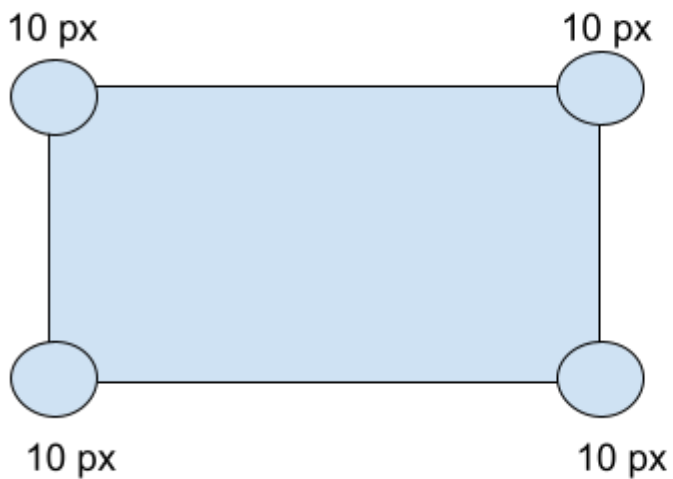
Background-repeat: repeat-x/y;
Background-position: center;
Background-size: cover;

Background-color: blueviolet;
Background-image: url(img/5.jpg);
Background-position: center;
Background-size: cover;
Background-blend-mode: lighten/darken/difference;

Border:



1. Border-style
2. Border-width
3. Border-color
4. radius



<style>

P{

Width: 300px;
Height: 300px;
Background-color: aqua;

```

    Border-style: double;
    Border-width: 5px;
    Border-color: red;
    Border-radius: 10px/20px; → Pick opposite value
    Border-radius: 50%;
}

```

```

Img{
    Width: 400px;
    Height: 400px;
    Border-style: outset;
    Border-width: 10px;
    Border-color: chocolate;
    Border-radius: 30px;
    Border-radius: 50%;
}
}

```

Display:

```

<h1>HELLO</h1>      HELLO
<h1>Hi</h1>         Hi
<h1>WELCOME</h1>    WELCOME

```

HELLO Hi WELCOME

1. Inline - Cannot define width & height
2. Inline-block - can define “
3. Block
4. None
5. Flex-box

```

<style>
P{
    Display: inline;
    Width: 150px;
    Background-color: aqua;
    Height: 20px;
}

```

Display: inline-block;

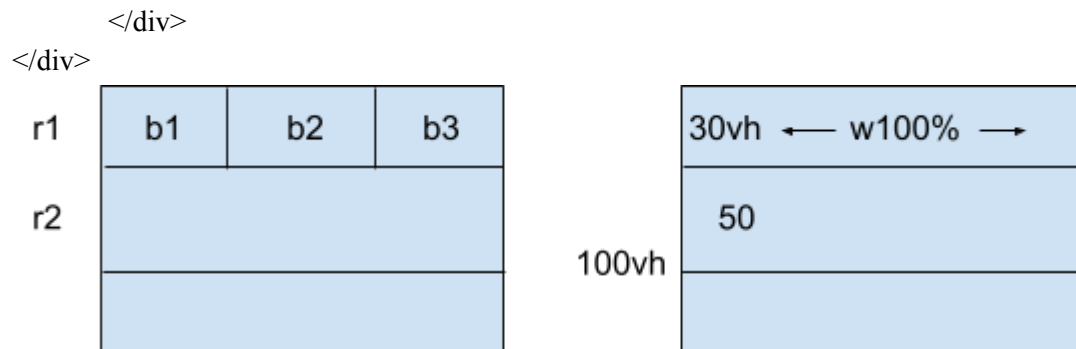
Display: block;

Display: none;

```

<div class = “container”>
    <div class = “block1”>

```



```

<div class = "container">
<div class = "block1">
.box*3
<div class = "box1">box1</div>
<div class = "box2">box2</div>
<div class = "box3">box3</div>

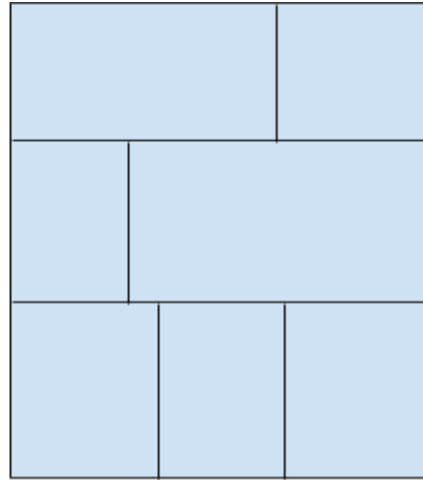
<style>
.container{
    Width: 100%px;
    Background-color: aqua;
}
.block1{
    Width: 100%;
    Height: 300vh;
    Background-color: brown;
    Display: flex;
    Justify-content: space-between/space-evenly;
}
.block1.box1{
    Width: 30%;
    Height: 30vh;
    Background-color: blue;
}
.block1.box2{
    Width: 30%;
    Height
  
```

Assignment-3:

1)



2)



3)

