```
Introduction to HTML
CSS
     Types
     Ruleset
     Selectors
     Colours
     Text formatting
     Text Decoration
     Text shadows
     Links
     Forms
Hosting
Task Assigned
                   <!DOCTYPE html>
                   <html>
                   <head>
                   <style>
                   .box{
                   border: 2px double gray;
                   height: 200px;
                   width: 200px;
                   background-color: orange;
                   position: relative;
                   τορ: 0ρχ;
                   left: 0px;
                   transition-duration: 1s;
                   transition-delay: 1s;
```

transition: height 2s, width 1s left

1s;

.box:hover{

}

```
width: 400px;
height: 100px;
font-size: 120%;
}
.item{
list-style-type: none;
height: 20px;
width: 100px;
background:
linear-gradient(blue,yellow);
color: white;
padding: 5px;
transition-duration: .1s;
}
.item:hover{
font-size: larger;
padding: 10px;
background:
linear-gradient(brown, navy);
border-radius: 5px;
margin-left: 10px;
color: beige;
}
</style>
</head>
<body>
class="item">CPU
class="item">Monitor
```

```
Keyboard
Mouse
Projector
Speakers
Camera
Printer
Scanner
Mic
li class="item">Mic
di class="item">Mic
```

#### HTML

- It stands for HyperText Markup Language.

</div>

</body>

</html>

- It is standard markup language used to create web pages.

#### Fetures of HTML

- HTML is highly flexible and simple.
- HTML is supported on almost every web browser.
- HTML is user friendly.

## Disadvantages of HTML

- It can create only static and plain web pages.
- We need to write a lot of code for making simple page.
- Security fetures of HTML are not good.

# History if HTML

- 1989 ′	GML	Generalised Markup Language
- 1991	SGML	Standard GML
- 1994	HTML	
- 2008	HTML 5	
- 2016	HTML 5.1	

## HTML is completely enclosed in tags

#### what is tag?

- Text placed between '<' and '>' is called as tag

```
Eg <html>
Tags are classified into two types
     1. Paired tags
     2. Non-Paired tags
1. Paired tags
- The tags that have both opening and closing
 tags are called as paired tags
           <html>
           </html>
           <body>
           </body>
     Note:- The closing tags start with '/'
2. Non-Paired tags
- The tags that have only opening tag but no
 closing tag are called as non-paired tags
- These are also called as
     i) Singular tags
     ii)Self closed tag
     iii)Empty tag
     iv)Forcefully closed tag
     Eg
           <br/>or
                            <br/>
                                        Break tag(line break)
           <hr> or <hr/><img> or <img/>
                                        Hrizontal rule (h. liné)
                                        image tag
Structure of HTML
```

<html>

</html>

Html Tables

<head>

</head> <body>

</body>

Forms List tags

<title>...</title>

## CSS:-

- CSS stands for Cascading Stylesheet
- It is a stylesheet language used for describing the presentation of docuemnt in markup language like HTML
- CSS is a cornerstone technology for world wide web alongside HTML and Javascript.
- CSS is designed to enable separation of presentation and contents.
- All styles are stored in CSS files.
- CSS files must have extension as '.css' only.

## Why CSS?

- it allows much ritcher presentation appearance.
- It reduces workload by centrallizing command for visual appearance instead of scatterd ones.
- Same styles can be reused for multiple documents.

## History:-

- First version of CSS was released in 1996.
- Second version of CSS was released in 1998, with improved table fetures.
- Third version of CSS was released in 2008 and currently in use with improved support for modules, it also supports modern browsers.
- Fourth version was released in 24th March 2017, which is faster than CSS3.

```
Types of CSS
- Inline CSS
                        Highest Priority
      - can be applied to only that tag
- Internal CSS
                        Medium Priority
      - Can be applied to only that document.
- External CSS
                        Lowest Priority
      - can be applied globally
***index.html***
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="style.css">
        <style>
           p{
               font-size: 50px;
               font-family: 'Courier New', Courier, monospace;
       </style>
    </head>
    <body>
        <h1>Good Morning</h1>
       <h4 style="background-color: violet;">First CSS Session</h4>
        CSS gives ritcher presentataion
```

```
One more p tag
   </body>
</html>
***style.css***
h1
{
   color:red;
}
h4
{
   font-size: 50px;
}
body
{
   background-color: yellow;
CSS Syntax(rule-set)
- CSS Syntax is selector and declaration block.
- The selector points to the HTML element
 you want to style.
- each declaration includes CSS property and
 value pair.
- Properties and values are separated by colon (:)
- Each property and value separated by semicolon(;)
Eg
      h1
      {
            color : red;
            font-size: 12px;
     }
where
      h1 is selector
      color is property
      red is value
      font-size is property
      12px is value
CSS Selectors
- CSS Selectors are used to select the contents you want to style
- Types
      i) Element selector
      ii)Id selector
      iii)class selector
      iv)Univarsal selector
      v) Group selector
```

```
i) Element selector
- the element selector selects the html element by name
Syntax
      element
      {
            style1;
            style2;
      }
            text-align: center;
            color: blue;
ii)Id selector
- it uses id attribute of html element
- to select a selector with specific id (#) is used.
Syntax
      #id
      {
            style1;
            style2;
      }
      #warning
            color: orange;
iii)Class selector
- the class selector selects html elements
 with specific class attribute.
- it is used with a "period" symbol (. DOT)
 followed by class name
Syntax
      .class_name
            style1;
            style2;
      }
      .cool
      {
            text-align: right;
            color: #002366;
      }
```

 class selector for specific element if you want to specify only one specific element should be affected then you should use element name with class name.

```
h1.cool
{
---
}
```

iv) Universal Selector

- The universal selector is used as wildcard selector.
- It selects all elements in page.
- It is denoted by '\*' symbol

```
*
{
    style1;
    style2;
    ...
}
```

- v) Group selector
- Group selector is used to select all elements with same style definition
- commas are used to separate selectors in grouping.

```
Eg
      h2
      {
            text-align : center;
            color: maroon;
      h3
      {
            text-align: center;
            color: maroon;
      }
      h4
      {
            text-align: center;
            color: maroon;
      }
      h2, h3, h4
            text-align : center;
            color: maroon;
      }
```

```
Colors:-
```

 Colors are specified using predefined color names or color values

```
Color values
RGB
            -> Red
                          Green
                                       Blue
                          Green
RGBA
            -> Red
                                       Blue Alpha
            -> Hue
                          Saturation Lightness
HSL
            -> Hue
HSLA
                          Saturation Lightness Alpha
HEX
             -> Hexadecimal
Alpha
             -> Transperancy
             -> 0 -> Transperant
             -> 1 -> Not Transperant
<body>
    <h1 style="color:#00ff00">Observe This color</h1>
    <h1 style="color:hsl(0, 100%, 50%)">Observe This color</h1>
    <hr>>
    <div style="background-color: black;">
        <h1 style="color:rgb(255,0,0)">Observe my color</h1>
        <h1 style="color:rgba(255,0,0,1)">Observe my color</h1>
        <h1 style="color:rgba(255,0,0,0.8)">Observe my color</h1><h1 style="color:rgba(255,0,0,0.6)">Observe my color</h1>
        <h1 style="color:rgba(255,0,0,0.4)">Observe my color</h1>
        <h1 style="color:rgba(255,0,0,0.2)">Observe my color</h1>
        <h1 style="color:rgba(255,0,0,0)">Observe my color</h1>
    </div>
    <div>
        <h1 style="color:rgb(255,0,0)">Observe my color</h1>
        <h1 style="color:rgba(255,0,0,1)">Observe my color</h1>
        <h1 style="color:rgba(255,0,0,0.8)">Observe my color</h1>
        <h1 style="color:rgba(255,0,0,0.6)">Observe my color</h1>
        <h1 style="color:rgba(255,0,0,0.4)">Observe my color</h1><h1 style="color:rgba(255,0,0,0.2)">Observe my color</h1>
        <h1 style="color:rgba(255,0,0,0)">Observe my color</h1>
    </div>
</body>
CSS text formatting
color
- color property is used to set color of text.
text alignment
- 'text-align' property is used to set horizontal
 alignment of text
- values are left, right, center, justify
Eg
      text-align : center
      text-align: left
                         / start
                     : right
                                /end
```

```
: justify
direction:-
- it is used to change direction of text
     i.e. left to right
               OR.
          right to left
                              (rtl)
unicode-bidi: bidi-override used to handle bidirections of text
vertical text
- writing-mode : vertical-lr
               : vertical-rl
     <h1 style="writing-mode:vertical-lr">Pranit Thakur</h1>
     <h1 style="writing-mode:vertical-rl">Pranit Thakur</h1>
Text Decoration
text-decoration is used to set or remove text-decoration
     underline, overline, line-through
     text-decoration: underline
                         : overline
                         : line-through
                         : none
      Guess me
      I am overlined
text
      I am
deprecated
      <a href="#" style="color:black;text-decoration:none">Guess me</a>
Text shadow:-
- text-shadow property adds shadow effects to text.
text-shadow: xoffset yoffset blur/height color;
text-shadow: shadow1, shadow2, shadow3,...
<style>
```

.sd1 {

.sd2 {

}

}

}

text-shadow: 10px 10px 0px gray;

text-shadow: Opx Opx 2px gray;

text-shadow: Opx Opx 2px red;
font-family: 'Lucida Calligraphy';

```
body{
            background-color: black;
        }*/
        .nospecs {
            color: rgba(255, 0, 0, 0);
            text-shadow: Opx Opx 4px red;
        }
        .sm {
            color: white;
            text-shadow: Opx Opx 2px violet,
                1px 1px 2px indigo,
                2px 2px 2px blue,
                3px 3px 2px green,
                4px 4px 2px yellow,
                5px 5px 2px orange,
                6px 6px 2px red;
        }
    </style>
Links
- Links can be styled with color, font-family, background, etc
- Links have following states
      a:link
                  -> a normal or unvisited link
      a: visited -> visited by user
      a: hover -> mouse pointer on link
      a : active -> moment it is clicked
Eg
      a:link
      {
            color: pink;
      a:visited
            color: green;
      a:hover
            color: red;
      a:active
            color: blue;
<style>
        a {
```

```
text-decoration: none;
            border: 1px solid gray;
            border-radius: 5px;
            background: radial-gradient(blue, orange);
            padding: 5px;
        }
        a:link {
            color: pink;
        }
        a:visited {
            color: green;
        }
        a:hover {
            color: red;
        a:active {
           color: blue;
    </style>
CSS inputs
- forms
- forms can be styled with input elements
      input
            color: red;
- to style specific input elements
      input[type=text]
            color: blue;
      input[type=password]
            width: 50%;
***index.html***
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="style.css">
        <script src="script.js"></script>
    </head>
    <body>
        <form class="box">
            <h1>Login</h1>
```

```
<input type="text" placeholder="Username" name = "uname" id =</pre>
"uname">
            <input type="password" placeholder="Password" name = "upwd" id =</pre>
"upwd">
            <input type="submit" value="Login">
        <button onclick = "clickMe()">Click Me</button>
    </body>
</html>
***style.css***
body {
    background: radial-gradient(circle, white, black);
    font-family: sans-serif;
}
h1 {
    text-transform: uppercase;
    font-weight: normal;
    color: white;
}
.box {
    background-color: black;
    width: 300px;
    margin: 50px auto;
    padding: 40px;
    border-radius: 20px;
    text-align: center;
}
input {
    margin: 20px auto;
    text-align: center;
   width: 200px;
    padding: 14px 10px;
    border-radius: 24px;
    background: none;
input[type="text"], input[type ="password"]{
    border: 2px solid skyblue;
    color : lightyellow;
input[type = "submit"]
    border: 2px solid burlywood;
    color:white;
    cursor: pointer;
}
Trial Hosting:-
1. Login to github.com
2. Create a repository
3. Copy url
```

- 4. Inialyse Local repository
  - >git init
- 5. add files to repository
  - > git add.
- 6. check status
  - > git status
- 7. Commit
  - > git commit -m "initial commit"
- 8. Add remote reposiotry
  - >git remote add origin <copied url>
- 9. push code to repository
  - >git push -u origin master
- 10. Select source
  - -> settings
  - -> pages
  - -> source -> master branch

### POC

Create informative website using HTML and CSS for

Group of hotels

Group of Institutions

Group of Hospitals

- Choose any one

Design minimum 10 + 1 home pages

Application should contain

- 1. Basic information
- 2. About, Contact, Portfolio pages
- 3. various departments and subdepartments
- 4. Back and home buttons
- 5. Common Headers and footers

Use various images, attractive backgrounds scrolling text and images

For hint may refer

https://www.apollohospitals.com/

https://www.tajhotels.com/

https://www.paruluniversity.ac.in/

https://www.oberoihotels.com/

https://sanjivani.org.in/

https://sahyadrihospital.com/