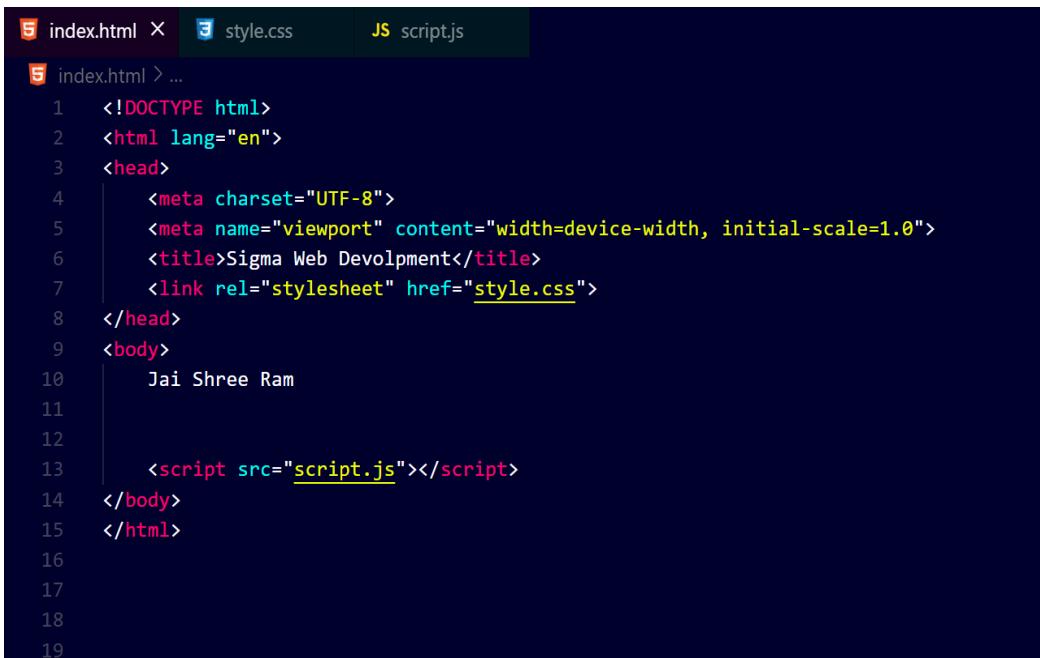


Sigma Web Development Express

HTML BESIC STRUCTUR



```

index.html X style.css script.js

index.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Sigma Web Development</title>
7      <link rel="stylesheet" href="style.css">
8  </head>
9  <body>
10     Jai Shree Ram
11
12
13     <script src="script.js"></script>
14 </body>
15 </html>
16
17
18
19

```

1. First Tag HTML - Yahi hamara starting or ending tag hota hai. Eske andr lang en jo hai vo English langwedg ko dikhata hai.
2. Head Tag – Ye hamara dusra tag hota hai jisme ham apna title , meta , link etc element rakhte hai.
3. Title – title me jo bhi likhte hai vo hamare browser par dikhta hai.
4. Meta – Ye sabse men hota hai meata hi hame kae browsers se jodta hai. Meta me hi ham keywords dalte hai. Ye hamare page ke bare me batata hai.
5. Link – Es tag se ham apni External css file ko jodte hai. Or file ka source dene ke liy ham href ka use karte hai.
6. Script – Es tag ka use ham JavaScript file ko jodne ke liy karte hai. Or file source dene ke liy ham src ka use karte hai. Script tag hamesa body tag ke just pahale lagate hai.
7. Body – Ye tag sabse emportent hai ham apni sari coding body ke andar hi karte hai jo hame browser par dikhae deti hai.

TAGS

H1,H2,H3,H4,H5,H6 – Ye hamari heding tags hai h1 sabse badi heding or h6 sabse chhoti heding ke liy use hoti hai.

P tag es tag se ham paragraph likhte hai.

Lorem esase ham dummy words likhte hai jitne chahe utne eska use ham jab website banate hai to to jo bhi likhna hota hai vo company apne hisab se likhti hai to ham vaha par lorem words ko likh dete hai or website de dete hai.

HAMARE PAS BAHUT SARE TAGS HOTE HAI JO HAM AAGE DEKHTE RAHENGE.

ATTRIBUTES – Ye ham tag ke andar likhte hai jaise html ke andar lang = “en” ak prakar ka atraviewt hai. Ham atraviewts ke jaise hi style="" ka use karke inline css bhi use kar sakte hai. Or head tag ke andar style tag ke andar jo css use karte hai use enternal css kahate hai or alag se file banana par external css kahate hai.

a tag ese anker tag bhi bolte hai esase ham link banate hai href atraviewt lagakar.

```
<a href="url">google.com</a>
```

Agar link ko dusre tab me kholna hai to target="_blank" ka use karte hai.

Br es tag ka use ham dusri line lane ke liy karte hai.

Hr es tag ka use ham horijontal line lane ke liy karte hai ye bhi br jaise hi kam karta hai.

Img es tag se ham apne page par image jodte hai or eska atraviewt hai src, alt src me ham url dete hai or alt se ham alert set karte hai taki imge load na ho to text dikhai de ki vo kis chijh ki image thi. Height & width ease ham image ki lambai or chaoudai set karte hai.

```

```

Table es tag se ham table banate hai or table banana keliy tr,th,td tags ka use karte hai.

```
<table>Table tag  
  <tr>table row  
    <th></th>table hedder  
    <td></td>table data  
  </tr>  
</table>
```

Eske andar do atraviewt aate hai colspan, rowspan esase ham do cols ya rows ko span karte hai.

ROWSPAN

COLSPAN

Caption es tag ka use ham table tag ke just niche karte hai or caption table ke upper me dikhai deta hai.

Gruping table me ham gruping karte hai taki css lagane me aasani ho gruping karne keliy ham thead,tbody,tfoot ka use karte hai .

ham th ko thead me rakhte hai , td ko tbody me rakhte hai, or sabse niche jo aayga use tfoot me rakhte hai.

List – ol order list, ul unorder list – ol me ham order de sakte hai jaise 1,2,3 i,ii,iii, etc. ul me order nhi hota hai esme bas dot hota hai. List me data dalne ke liy ham li ka use karte hai.

Dl definition list, dt ? , dd definition data en dono ka jada use nhi hota hai ye bhi ol,ul,li ke jaise hi use hote hai.

```
<ul>  
  <li>mango</li>  
  <li>banana</li>  
  <li>orange</li>  
</ul>
```

Bas ul ke yaha par ol du to ye list order list ho jaygi.

List attraviewt – type = square,circle

```
<ul type="square">  
  <li>mango</li>  
  <li>banana</li>  
</ul>
```

OI orderlist atterviewt – type = i, I,a,A

```
<ol type="a">
  <li>mango</li>
  <li>banana</li>
  <li>orange</li>
</ol>
```

Core Web Vitals

:- Eska matlab hai ki hamari site kitni tej load ho rhi hai achhe se contain dikh rha hai ya nhi, user jo cencle karna chahata hai vo turant cancle ho rha hai ya nhi.etc.....

CLS (Comoletive layout shift) - Layout shipt nhi hona chahiya matlab ki aapki site aadhi load hue or aadhi bad me to bad me page uper niche nhi hona chahiya.

LCP (Largest contacchual paint) – Eska matlab hai ki sabse bada dikhne vala element kitni der me load ho rha hai. Niyam ke hisab se 2.5 sec hona chahiya.

FID (First input delay) – Eska matlab hai ki agar user kisi input/button par click karta hai to vo kitni der me process hota hai. Niyam ke hisab se 100mili sec hona chahiya.

META TAG

:- Meta ke ham keywords likhte hai site ke or description likhte hai (meta.desc)

TAGS

Form – Es tag se ham form banate hai. Eske bad ham input tag ka use karte hai jo ham ak input box data hai jiska

type = number,password,text,radio,checkbox,email,range,submit,reset,color etc..... rakh sakte hai. Ye sabhi input ke type attriviewt me use hote hai.

```
<input type="text" name="username" placeholder="Enter your name">
```

Name me ham back and ke liy value dalte hai, placeholder me ham vo likhte hai jo juser se input karvana hai jo type karte hi hat jata hai.

Form structure : -

```
<form>
    <h2>Enter Name</h2>
    <input type="text" name="username" placeholder="Enter your name">
    <h2>Enter AGE</h2>
    <input type="number" name="age" placeholder="Enter your age">
</form>
```

TAGS

Lable – Eska use ham radio ke input ke bad karte hail able lagane ke liy or input me jo id dete hai vahi id ham lable ke for attrativewt me dete hai jisase ham lable par bhi click karenge to hamara radio input check ho jayga. Or ak bar me ak hi radio input check karna hai to name ki value sabki same rakhni hogi.

```
<form>
    <input type="radio" id="male" name="gender">
    <label for="male">Male</label>
    <input type="radio" id="female" name="gender">
    <label for="female">Female</label>
</form>
```

BLOCK AND INLINE ELEMENTS

Block – Elements vo hote hai jo puri width gherete hai chahe unko aadhi width ki hi jarurat ho. Div,address,article,p,ol,ul,pre,table,footer,form h1..h6,etc....

Inline – Elements jitni jarurat hoti hai utni hi width gherete hai.

A,abbr,b,big,br,img,i,input,label,output,span,sub,sup,var,time,small,big,etc...

TAGS

Select , option – select ke ander ham option ka use karte hai.Or opton ke value attraviewt me ham value dete hai backend ke liy. es tag ka use ham list scrolling list banana ke liy karte hai. Jisme se user koe ak option select karta hai. Option ko ham disabled bhi kar sakte hai jo select nhi hoga.

Required – es attraviewt ka use ham input me karte hai taki es input ko bina fill kiy form submit na ho.

Autofocus – es attraviewt ka use ham input me karte hai taki jispar chahe uspar focus karva sake . ye ak type se heiglight kar deta hai.

Textarea – es tag ka use ham form me comments ke liy karte hai.

#ID & .CLASS

#Id – ye unic hoti hai ese ham dobara nhi bna sakte hai. Target # se karnge.

.Class – ham ak hi class alag – alag elements ko de sakte hai. Or class me bhi ham multiple class de sakte hai jiske liy space ka use kare hai. Class="c1 c2". Class ko (.) se raget karte hai.

Id- id ko ham link bhi bana sakte hai taki jab ham link par click kare to page apne aap scrool hokar vaha aajay.

TAGS

Video - Es tag ka use ham page par video lagane ke liy karte hai. Or src and controls attraviewt ka use ham video ko control karne ke liy or src ka use ham video sorce dene ke liy karte hai.or autoplay,loop,muted,poster="imgURL", etc attraviewts ka use karte hai. Poster attraviewt ka use ham video par thumbnail lagan eke liy karte hai.

Audio - Es tag ka use ham audio lagane ke liy karte hai. Es tag me controls attraviewt lagana jaruri hai nhi to audio page par nhi dikhegi. Or autoplay,loop,muted,preload etc.

Preload – es attraviewt ko preload="auto" karne par audio download ho jati hai taki user ese dobara play kare to play ho jay.

SVG – es tag ka use ham img ke jaise hi karte hai or svg ko ham alag se bhi save kar sakte hai. Or SVG ke sath xmlns attraviewt ka use karte hai. Taki image dikhai de .

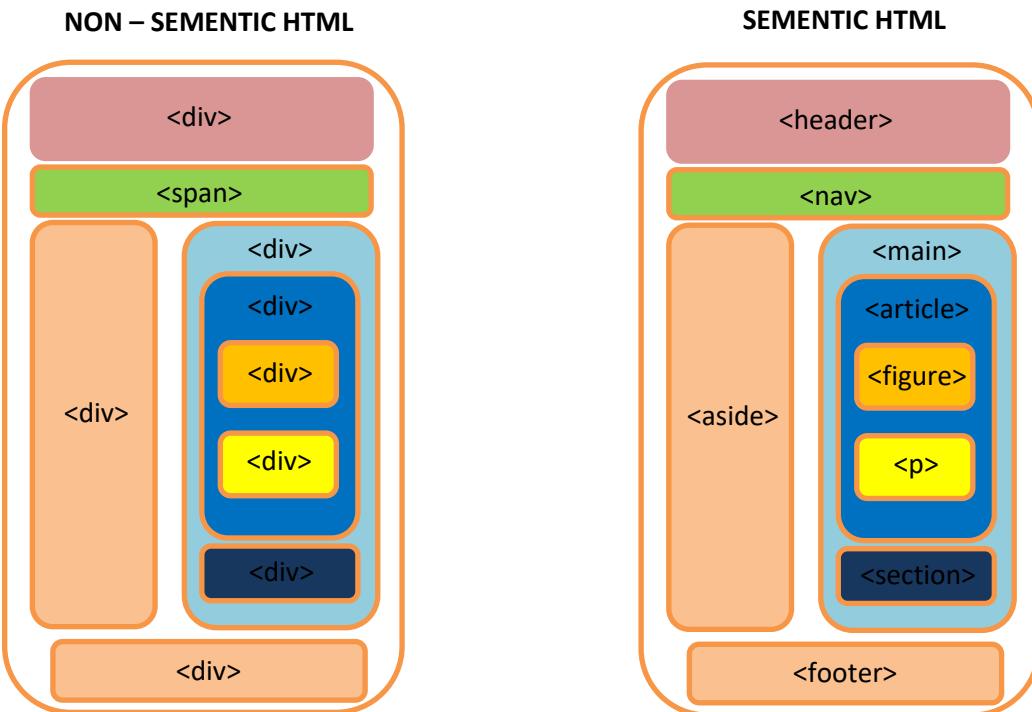
iFrame – es tag se ham kisi bhi wesite ko apne page par add kar sakte hai.

```
<iframe src="www.https://google.com"></iframe>
```

SEMANTIC TAGS

: - header,nav,main,article,figure,aside,p,section,footer. Ye sabhi semantic tags hai jinka use karne se ham apni wesite ke bare me achhe se bata sakte hai or samjha sakte hai. Jaise header esase pata chal rha hai ki upar ki bat ho rhi hai or footer esase bhi pata chal rha hai ki ab wesite khatam hone vali hai footer aagya.

Jaise – footer ya header ki jagah par ham div ka bhi use kar sakte hai, ya navigation banana ke liy nav tag ki jagah par span ka use bhi kar sakte hai. Or jitney bhi semantic tags hai unke jagah par ham jada tar div ka estemal kar sakte hai.



: - ham non - semantic type se bhi wesite bana sakte hai lekin ye sahi tarika nhi hai wesite banane ka hame semantic tarike se hi wesite banana chahiya.

Header – ye website ka uper vala bhag hota hai.

Nav – ye bhi hamara header ka hi hissa hota hai.

Main – eske andar ham apni bich sari cheeje rakhte hai,
article,figure,pairagraph,section etc...

Aside – esase ham side me kuchh likh sakte hai.

Footer – ye hamare wesite ka sabse niche vala bhag hota hai.

Q1 – You are given 12 files; 6 audio and 6 video.

Desin a website using HTML only which shows these 12 files .

1.mp3, 2.mp3.....6mp3

1.mp4,2.mp4.....6mp4

TAGES

Pre - es tag ka use ham apne content ko vaise hi dikhate hai jaise ki vo hai.or page par tags bhi dikhane hai to hame Entites ka use karna padega. < >

Hame job hi page par show karna hai vo en dono ke beech me hona chahiya.

© - Esase ham copyright sign late hai.

 - Ye space dene ke kam aata hai ak bar likhne par ak space aata hai. Jitna space chahiya utna dalo.

Quotation - <blockquote>

Quotation text here....

</blockquote>

Quotation tag ka use ham quotation likhne ke liy use karte hai. Or esme ham kisi bhi wesite ko site bhi kar sakte hai eske src me.

Code tags – es tag ko ham pre tag ke andar likhte hai. Esme ham code likhte hai . esme koe bhi code likh sakte hai. Ye aise likha hogा jause ki copy par likhte hai.

```
<pre><code>
&lt;!DOCTYPE html&gt;
&lt;html lang="en"&gt;
&lt;head>
  &lt;meta charset="UTF-8"&gt;
  &lt;meta name="viewport" content="width=device-width, initial-scale=1.0"&gt;
  &lt;title>Document/title&gt;
  &lt;/head&gt;
  &lt;body&gt;

  &lt;/body&gt;
  &lt;/html&gt;
</code></pre>
```

Canvas – Es tag ka use ham JS ke sath krte hai, esase ham html ke element ko graphicle shape me convert kar sakte hai.

|| जय श्री राम ||

HTML KHATAM