HIML & CSS Assignments

The CSS box model is a fundamental concept in web design that describes the layout and structure of element on a webpage. The box model consists of four main parts: content, padding. border and margin.

1) Content: It refers to the actual content of the element such as text, images or other

media.

- Padding: It is the space between the content & the border Padding can be used to create space within the element & around its content.
- 3) Border: It is the line that surrounder the padding and content of the elements.
- 4) Margin: It is the space outside the border, which seperates the element from other elements on the webpage.
- These parts affect the overall dimensions and spacing of an element on the webpage.

Exercese: - Simple HTML structure.

L!Doctype himl?

< html?

chead y with all this man & white

```
< body >
    <div class = "container">
     Idiv class = "item" > Item I //div >
     <div class = "item"> Item2 //div>
     Zdivclass = "item" > Item3 X/div >
     Aldiv >
      </body>
      </html>
             using Css Grid.
  L! DOCTYPE
               Intml >
   ×html>
    <head>
        < style >
            · Container &
                 display: grid;
       Grid template -coloms: repeat (3, 1fr);
            ·item {
             text-align: Center;
              padding : 10px;
                         : 1px solid #000;
              Border
         </br>

body>
            Ldiv class = "Container
```

layouts such as arranging row or column. Flexbox is ideal for navigation menuscord layou is and centering vertically and hor gortally. 2) CSS Grid . (F) Grid is used for two demensional layouts, mak. ing it ideal for creating complex grid-based concepts. BIts suitable for designing grid layouts, image galleris, & even entire webpage layouts. Exercise Example of using flexbox Z! DOCTYPE htmly 2 html > Lheady .. 2style> · Container & display: flex; justifycontent: Space-between; Align-items : Center; item & flex: 1; text-align. Center; padding: 10px; bordon: 1boc solid #000: 2/style x. //head?

< style > </ style> </head? < body > ¿div clash= "box"> < h= > Sample box </h> > This is sample papagraph inside the boulds NAINT Z/bedy> </html> 1) Setting margin margin: 20 pz; (2) Adding padding padding: 20px; (3) Applying a border · border: 20px solid black;

The specificity of a css selection—that determine which css styles are applied to an element when multiple competing styles exist. It is important in styling webpages because it helps developers & designers understand how to control—the priority of css rules & ensure that the intended syles are

applied correctly. Specificity is determined possession the combination of Selectors in a cistale The more specific a selector is, the higher its Specificity value. order of importance: 1) Inline styles 2) selectors (ID) 3) Class selectors and attribute selectors 4) Type & Pseudo Selectors . 5) Universal & descendant selec-1015. Exercise: < ! Doctype html> <html> < head > < style = special-paragraph ? Colour: red; 9 P & color blue; 9. important falor: green, 3 </style> XI head 7 2. body > id: "special paragraph" class= " important" > This is a paragrapher Albedy > 1/htmlz

GSS Flexbox & CSS grid on two layout models in css that allow web developers to create responsive & flexible page layouts;

Flexbox is primarily used for one dimensional

```
Zdiv class: "item"> item 1 / Idiv>

<div class: "item"> item 2 / div>

<div class: "item"> item 2 / div>

<div class: "item"> item 3 / div>

<div class: "item"> item 3 / div>

</div>

</div>

</div>

</div>

</div>

Albedy > 

Albedy > 

Cosition: relative: adjusts an element of the content of the
```

Position: relative: adjusts an elements position relative to its normal flow, useful for minor positioning tweaks.

· Position: absolute positions an element relative to the nearest positioned ancestor or the view port, often used for overlays or pecise positioning.

· Position: fixed: Positions an element relative to the view port, making it stay fixed even when the page is scrolled, commonly used for fixed headers on navigation bars. The choice depends on specific layout and design needs.

* Exercise; -

<! Doctype html>
<html>
<head>
link reel= "stylesheet" type="text/css"
href='styles.css">

```
Klhead>
 1 body >
   <di> class: "relative">
      2p> Relative position x/p>
     Kldiv >
  Zdiv class = "absolute - container">
     zdiv class= absolute'>
           Absolute position
   2/div >
   Edir class= "Fixed">
        Ap > fixed position L/p>
      Aldiv>
     21 body 7
      2/html>
 => (55 (5tyle. (55)
   · relative &
          position: relative;
           top : 10px;
            left: 20px;
     · absolute & - container f
             position: relative,
              height: 200px;
    · absolute &
             position: absolute;
              top: 50%;
```

css(style.css)
blockquote::before {
 content: 1201000 "; /* uncode character
 for right doublete quotation mark*/
 font Size: 24px;
 margin left: spx,

Responsive web design is an approach to designing and developing websites that ensures they adapt and display properly on various devices and screen sizes, such as desktop computers, tablets, and Imobile phones. This is achieved by using flexible grids and layouts, along with CSS media queries.

Media queries are CSS rules that apply styles based on the characteristics of the device's display. They allow you to define different styles for different screen sixes or device types.

* Exercise: -

<! Doctype html>

<html>

< head >

2 title > Responsive web design 2/title>

```
left: 50%.
  transform: translate (-50%, -50%);
· fixed of
        position: fixed:
          top:0;
       g right o;
Css pseudo elements such as :: before and ::
after, allow you to insert Content before or.
after the content of an element, without
the need to add extra . HTML markup. They
are often used for decorative elements, en hanci-
    design, or for adding additional Correct.
    <! DOCTYPE html >
     <head >
       Zlink rel= "stylesheet" type= "text/css"
         href= " style - Ess">
    alhead >
     < body>
       zarticle >
            < blockquote>
            " my name i's pooma".
           </book quote >
          < larticle >
          </body>
         </html>
```

```
< tyle >
 body
     fent family: Milal. Sans sen'f:
     text align : center
      hwigin: 0:
    padding: sopx
   · Container ?
       max -width: Scopx;
     y morgin: o auto:
      bender: Ipx solid # cccs
    padding : bepx;
  margin bottom: 20px;
   2 Istyle ?
   </bead>
   < body>
   2 diriclass= "container">
     <hi - Responsive design </hi>
    x div class "box"=
       462 - Box1 2/h2>
        ZP - Content for BexX/P>
       Kldivy
      < div class = "box">
       Ap> Content for Box2 = /P>
       e Idiv>
        Zdiv class = "box" >
```

```
2h2 = Box 3 2/hs =

2p = content (or Box 3 2/p)

2/div =

2/hody =

2/hondy =
```

Accessibility in web development is crucial as it ensures that websites are usable and understandable by people with disabilities, including, those with visual auditory, cognitive, and motor impairments. It aims to provide equal access and opportunities for all users, regarders of their abilities or disabilities.

ARIA (Accessible Rich Internet Applications) is a set of attributes that can be added to HTML elements to provide additional information to assistive technologies, such as screen readers.

ARIA roles and attributes.

1) Role = banner: Indicates main headerer banner of age p) Role = "ravigation". Identifies the navigation section of artifige 8) Role = "main". Denotes - No main content area of a page 1) Role = "form". Marks up a form clement. 5) Pole " link". Identifies an interactive link. the such houses wheat which considered to the such housest wheat which versus of the strait of the before the strait of the such for the such for the such that the such t

the purpose of the Villering Scholandin to the houses rendered the web page considered by the prolong the Mill markup according to the specified recommender and made should be should be such as the specified recommender.

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1/10/1/7

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21 buly =

=/ Itelant x

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Alient W
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 Alload =
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      diameter -
          ship ample webste - /hix
       - Theader
           -de les a brefor bome htol " Home
         211-20 to of saland - him " - about Usila
         2 live 2 in hiel "servicesht of" & Service //as
      211 -an hief " "contact html" > Contact 2/a > </>
  2/11/2
  = main = h = welcome to ownwebsite 2/h, >
       21 - This is Some Sample Content /p>
  Klmain >
    Souters.
        * P > & $copy; 9013 Samplewebsite 
    2/footer >
   </body >
   21 htmly
```