

HTML

Hyper Text Markup Language

It is a program which is used to create the multipage of a website effectively by using graphics, Images, texts etc.

It is having two types of components =

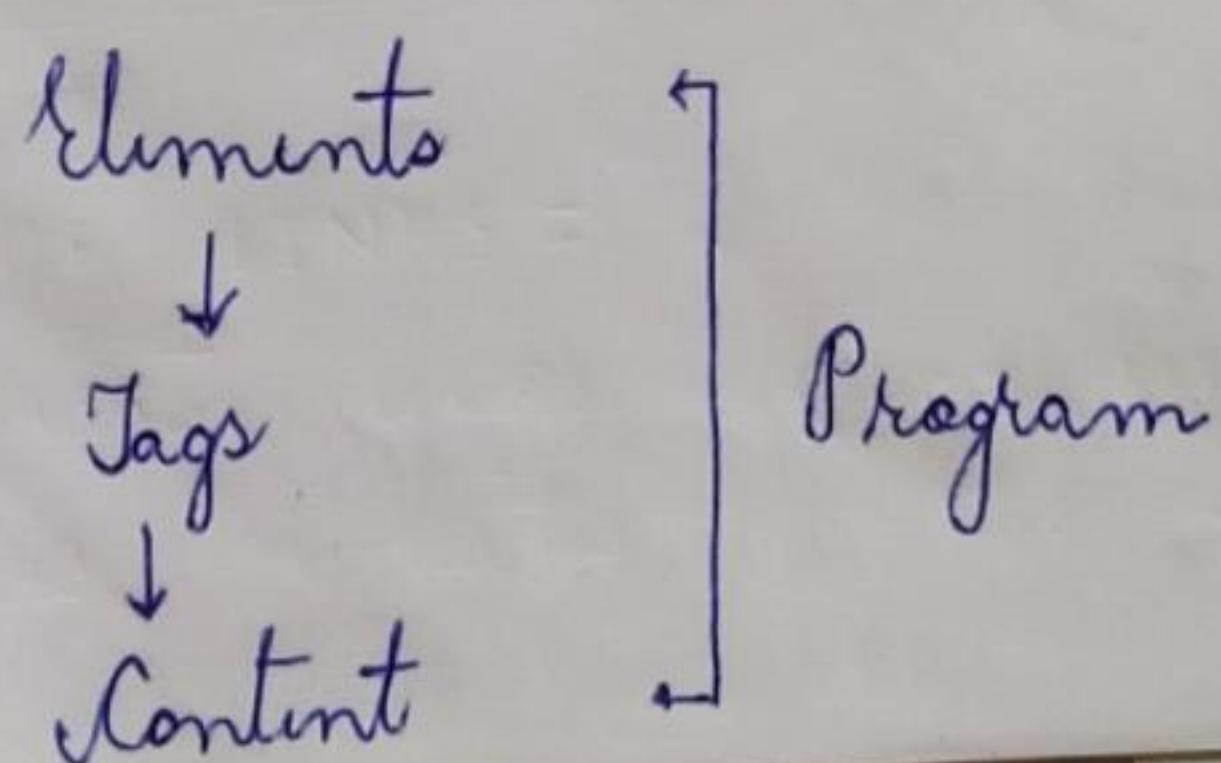
- i) Container Element = The element which requires closing, and supports various content is termed as container element.
- ii) Empty Element = The elements which does not supports any content, only has some effective work on the program and does not require closing is termed as ~~empty~~ container element.

Tags = The system which supports elements is termed as tags.

Eg =

```
graph TD; A["<A HREF = \" \" ></A>"] -- Tags --> B["HREF"]; A -- Elements --> C["HREF"]
```

Flow Chart =



* Basic Format of HTML =

```
<!DOCTYPE> → empty element having document type information.  
<HTML> → Declaration of program by HTML.  
<HEAD> → Head of the program  
→ <META NAME = " " CONTENT = " " >  
<TITLE> " " </TITLE>  
</HEAD> → Since, head was container element. It requires closing.  
<BODY> ] Body is a container element which main content of the program is shown.  
</BODY>  
</HTML>
```

↑ Closing Program

- Meta is an empty element having name and content as tags. Generally, Information under meta is not displayed.
- Title is a container element which is used to give title of the program but it is displayed in title bar of the screen's Output.

Various Attributes used in program =

- i) <P> ⇒ It is a container element which supports paragraph.
- ii) ⇒ It is a container element which is used to give bold texture to text.
- iii) ⇒ It is also the container element used to give italic texture to text.

- iv) <U> ⇒ It is also the container element used to underline the text.
 - v)
 ⇒ It is empty element used for a line break. But not preferred for use.
 - vi) <HR> ⇒ It is empty element used for horizontal line rule.
 - vii) <DIV> ⇒ It is a container element used for line break. Preferred method. (Recommended)
 - viii) <PRE> ⇒ Formatting will be visible.
- Note ⇒ Before HTML 5 the attributes used for bold and italic were and <I>, which was also the container element and is replaced by and .
⇒ But we can use them in latest versions as well work similarly without giving error.

* HEADINGS =

- ⇒ There are six heading tags which are all container elements.
- ⇒ Starting from H₁ to H₆.
- Size of the text differs as =

$$\boxed{H_1 > H_2 > H_3 > H_4 > H_5 > H_6}$$

* GENERATION OF LINKS =

- ⇒ We can generate links using HTML program to open various websites.

Syntax =
CLICK HERE TO OPEN WEBSITE

But by this there syntax we can open one website ~~multiple~~ at a time.

To open multiple websites at a time we must use target and blank ^{after website name}.
as given below =

Syntax = <A HREF = "HTTPS://WEBSITE NAME.COM"
TARGET = "_BLANK"> TEXT

*. TO ATTACH IMAGES =

→ To Attach Images Online to a program we must use the following syntax =

→ It is empty element. Hence, does not require closing.

→ ALT = "TEXT" is used because if the image from given link is not working then whatever is written at text part will be displayed.

*. LISTS = There are two type of lists to arrange various things accordingly.

i) Unordered List = Arrangement in Unordered like in form of bullets, squares and discs.

Syntax = <UL TYPE = "CIRCLE / SQUARE / DISC">
 TEXT
 TEXT

ii) Ordered List = Arrangement in Ordered Form like number, capital Alphabets, small Alphabets

Syntax = <OL TYPE="1/A/a">
 TEXT
 TEXT

⇒ Here, LI are list items which is to be listed

*. To Form Tables = Various Elements and Information Arranged in Rows and Columns forms tables.

Syntax = <TABLE>
<THEAD>
<TR> <TD> → Represents Rows
<TH> TEXT </TH> → Represents heading

<TH>
<TR>
</THEAD>
<TBODY> → Contains Body of the table
<TD> TEXT </TD>

</TBODY>

HTML important

FORM

We can make a website's form for taking the credentials by Using various Attributes on a website syntax =

```
<FORM> TYPE = "BACKEND.PHP">
    NAME <INPUT TYPE = " " NAME = " " ID = " ">
</FORM>
```

the type could be of various types =

- a) TEXT = Gives Alphabatical values.
- b) NUMBER = Gives Numeric Values.
- c) EMAIL = Stores mail Id.
- d) RADIO = Used to click various Options.
- e) CHECKBOX = Used to select or Unselect the Option.
- f) DATE = Used to select date.
- g) TIME = Used to select time.
- h) DATETIME = Used to select date and time.
- i) TEXTBAR = Space to write description According to columns (cols) and rows (rows) given to it.

~~Note = To submit the credentials following syntax is used =~~

```
<INPUT TYPE = "SUBMIT" VALUE = "SUBMIT">
```

To reset the credentials following syntax is used =

```
<INPUT TYPE = "RESET" VALUE = "RESET">
```

Now to click and select the credentials following syntax is used =

```
<LABEL VALUE = "EDNAME"> <input type = "text" id = "EDNAME" /> </LABEL>
```

Note = Here ID value must be name of ID.

→ The name and Id mentioned is not going to be displayed on Output screen but, these are the terminologies which are going to be used Under Backend for the credentials.

* Note = To select One Option from multiple Options following Syntax is used =

```
<LABEL VALUE = " ID" > CREDENTIAL </LABEL>
<SELECT TYPE NAME = " " ID = " " >
  <OPTION VALUE = " " > CREDENTIAL </OPTION>
</SELECT>
```

*. Inline And ~~Block~~ Block =

→ To make the function shift in one line by the compiler so that to reduce function Overload and to reduce compile time, Inline terminologies / Elements are used.

The syntax is as follows =

```
<SPAN> - - - - </SPAN>
```

→ Keyword used for Inline is SPAN.

Ex = For the Program

```
<P> HI ! I AM HARSHIDA SHAILY </P>
<P> AND I AM EIGHTEEN YEARS OLD . </P>
```

Output = HII! I AM HARSHIDA SHAILY -
AND I AM EIGHTEEN YEARS OLD.

→ Now, here without Using `
` or `<DIV>` tags
the line break occurred.
which means these are block code.
But If the Program is like =

` HII ! I AM HARSHIDA SHAILY. `
` AND I AM EIGHTEEN YEARS OLD. `

Output = HII I AM HARSHIDA SHAILY. AND I AM
EIGHTEEN YEARS OLD.

→ By Using Inline concept, it shifts to One line.
Now,
→ By Using Inline concept the function Applies
particular block of space but by Using block
code they occupy full space.

*. ~~CLAS~~ ID'S AND CLASSES =

→ The Id's of the particular Attribute is Unique.
But classes name can be used at multiple places
→ In VS-CODE is represented by =

ID → Shortcut → #

CLASS → Shortcut → .

Syntax = `<DIV ID=" " CLASS=" " >`

→ Giving various class names at same tag, we
use space and then write the name of the
class in general compilers.

These are used to give shortcut to various symbols and gives shortcuts to reserved words and shortcuts to the elements which are not present on keyboard.

* SEMANTIC ELEMENTS =

- These are used to give meaning to various keywords.
- Help - helpful in ranking of webpage in cluster of websites on Search Engine Optimisation (SEO).
- Differentiates header, footer, navigation, contents etc.

Syntax = < DETAILS >

TEXT

< SUMMARY > TEXT < /SUMMARY >
< /DETAILS >

Note = LOREM gives / provides dummy words to the program.

Attributes =

→ Used to make program effective

Example = ID, Class,

Tags :-

< header > = Consists, logo, heading, timelines
< navigation > = Consists buttons
 ↳ < nav >

< main > = Content of webpage

i) < article > = Subsection
ii) < sections > = Single piece of functionality

HTML 5.0 is the latest version of HTML.

HTML

- Was not user-friendly.
- Not having Audio and Video tags.
- Not supported by latest browsers.
- Device dependent.
(Only runs on particular device as per code.)
- Syntax was not organized.

HTML 5

- User-friendly.
- Having Audio and Video tags.
- Supported by All latest browsers such as Google Chrome, Opera Mini, Firefox, Safari etc.
- Device Independent.
(Runs on each and every device as per code)
- Syntax was Organized.

~~Note~~ = General Syntax = <tagname> Content of the page </tagname>

* Attributes = HTML Elements are having Information in it.
Hence, the Additional Information About HTML Elements is After
the declaration of tag name is termed as Attribute.

Ex = <HEAD
<META NAME = " " CONTENT=" ">
</HEAD>

Here HEAD is Element, META is tag, NAME and CONTENT is Attribute

Various Tags of HTML

Tag

<P>

Working

<P> It is a paragraph tag which supports sentences (short or long)

<H1> This is heading tag which ranges from 1 to 6, varies in size. <H1>

<A>

<A> This is Anchor tag which is useful in combining # various links through multiple

This is Empty tag which is responsible in giving the Image to the text or multiple

Attri

HREF
-

Attributes in HTML

HREF is used after Anchor tag to specify links of that multiple

SRC

SRC is used to link Images to the multiple

ALT

If the link of the Image does not work properly, then the text under ALT is

Note = The SRC Attribute is further divided into two parts =

- a) Absolute URL = gives and supports links to the Online Images.
- b) Relative URL = Supports the Images within the computer system (Offline Images).

FORMATTING

,

Useful in giving bold texture to the text.

<I>,

Useful in giving italic texture to the text.

<U>

It is giving underline beneath the text.

<mark>

To make highlighted text.

<small>

To make texts smaller than normal size.

<big>

To make texts enlarged than normal size.

Additional Formatting Tags

Tags

Uses

<STRIKE>

Strikes the text written

Syntax = <STRIKE> --- </STRIKE>

Ex = <STRIKE> CIGARATTE </STRIKE>

Output = CIGARATTE

<SUB>

Uses to make text as Subscript

Syntax = ₋₋₋

Ex = <P> A ₂ </P>

Output = A₂

<SUP>

Makes the text as superscript

Syntax = ⁻⁻⁻

Ex = <P> A ² </P>

Output = A²

<BIG>
<SMALL>

Enlarges Original text
Ensmallies the original text

* Text - Alignment = The alignment for the position of text on the screen
of webpage.

Syntax = <TEXT-ALIGN="POSITION">-</TEXT>

Or

< Selector TEXT-ALIGN="POSITION" > ----- </ Selector >

Or

< Selector style="TEXT-ALIGN: POSITION;" > ----- </ Selector >

→ here position can be Right, Left, Center, Top, Bottom.

Tag

Uses and Syntax Formatting Effects

VSPACE

Gives vertical spacing at both sides of the Image in pixels.

Syntax =

HSPACE

Gives horizontal spacing at both sides of the Image in pixels.

Syntax =

MARQUEE

It is a container element which is mainly used for moving text

Syntax = <MARQUEE> TEXT-FOR-MOVEMENT </MARQUEE>

(Cascading Style Sheets)

Importance =

- i) It gives style to raw HTML code and makes it presentable and lavish.
- ii) It gives color, texture and graphics to the markup.
- iii) Gives Effectiveness to the viewers and customers.

* MARKUP → The raw HTML code is termed as markup.

Syntax (General) = **Selectors { Attribute : Type ; }**
or
Selectors { Property : Value ; }

Example = **P { color : blue; }**

* WAYS TO ADD COLOR STYLING TO MARKUP =

i) **Inline Style** = It is added within the same line after the tag
But this is generally not recommended because it makes the markup confusing

Ex-: <P style="color: RED; background-color: black;">
 </P>

ii) **Internal Style** = It is added to the head element in the markup.

Ex-: <HEAD>
 <STYLE>
 p

 { color : RED;
 background-color : BLACK; }
 </STYLE>
 </HEAD>

iii) External Style = We need to follow two steps in the same =

- a) Create the styling to ~~css sheet~~ CSS sheet.
- b) Add the styling sheet to the head to apply in markup.

Ex:-

Step 1 = Create a sheet lets say HARSHIDA.CSS

```
p { color: RED;  
background-color: BLACK; }
```

Step 2 = Add it to HTML's head element

```
<HEAD>  
<LINK REL="stylesheet" HREF="HARSHIDA.CSS">
```

Save the code and then run the program.

Order of the style colors =

Inline > Internal / External (According to cascading Order positioning)

#. Selectors in HTML and CSS (Cascading Style Sheets)

- Syntax = Selectors { Condition / Parameter : Value ; }
- (These all functions in HEAD element)
- There are four kinds of Selectors =
 - i) Element Selector = These are normal CSS (Cascading style sheets), say as Internal style.

ii) Id Selector = The ID (which is always unique) is given to selector and Attribute and its values are set.

Syntax = # Id { Attribute / Parameter : Value ; }

iii) Class Selector = The class name and values are given to tags which can be common and that is set with the parameter.

Syntax = . class_name

{

Parameter / Attribute : Value;

}

iv) Grouping Selectors = These are used to add effects to multiple tags at a time.

Syntax = tag1, tag2

{

Attribute / Parameter : Value;

}

Example = FOOTER, SPAN, P

{

color: RED;

background-color: YELLOW;

font-style: ITALIC;

border: 2px SOLID BLACK;

font-weight: bold;

line-height: 1.3em;

font-family: -;

Since, these properties are inherited to all parameters mentioned above.

DEVELOPER TOOLS = When we compile the code, it shows its Output on the browser (Generally Google Chrome). Since by right clicking and Inspecting the various functions, we can change different Attributes for effective display of the Output.

3 Moti = These are temporary. When we reload the page, if we do it, it will again show the same output as previous one.

4. FONT - STYLES = These are used to give effectiveness to fonts in various aspects.

i) Font-family = Used to give the texture i.e., Arial, Cursive etc. (list of font names)

It is of two types = a) Web Safe font family
b) Web font family

a) Web Safe font family = Which is already present in our computer's library.

b) Web font family = This is something which we need to extract and download from Internet.

Best site to download is Google Chrome font styles.

ii) Font-weight = This shows bold, italic, underline etc texture.

iii) Font-size = Specifies the size of font in pixels.

line-height = Makes distance between two lines
According to the code.

Dimensions in em and rem.

font-style = Specific style of font (bold, italic, underline)

height, width, style E = All things under head element

Ex = <STYLE>
P

color: rgb(31, 42, 26); (RgB gives color and has a specific

background-color: #FFFFFF; Option to choose the
background-image: url('LINK') colour.)

height: 490px; ← Describes the height of
the box.

width: 460px; ← Describes width of the
box.

border: 2px solid red; ← Gives color to the border

border-radius: 2px; ← Gives a curve to the
border ends.

Further Specified Into =

border-bottom-left-radius;

border-bottom-right-radius;

border-up-left-radius;

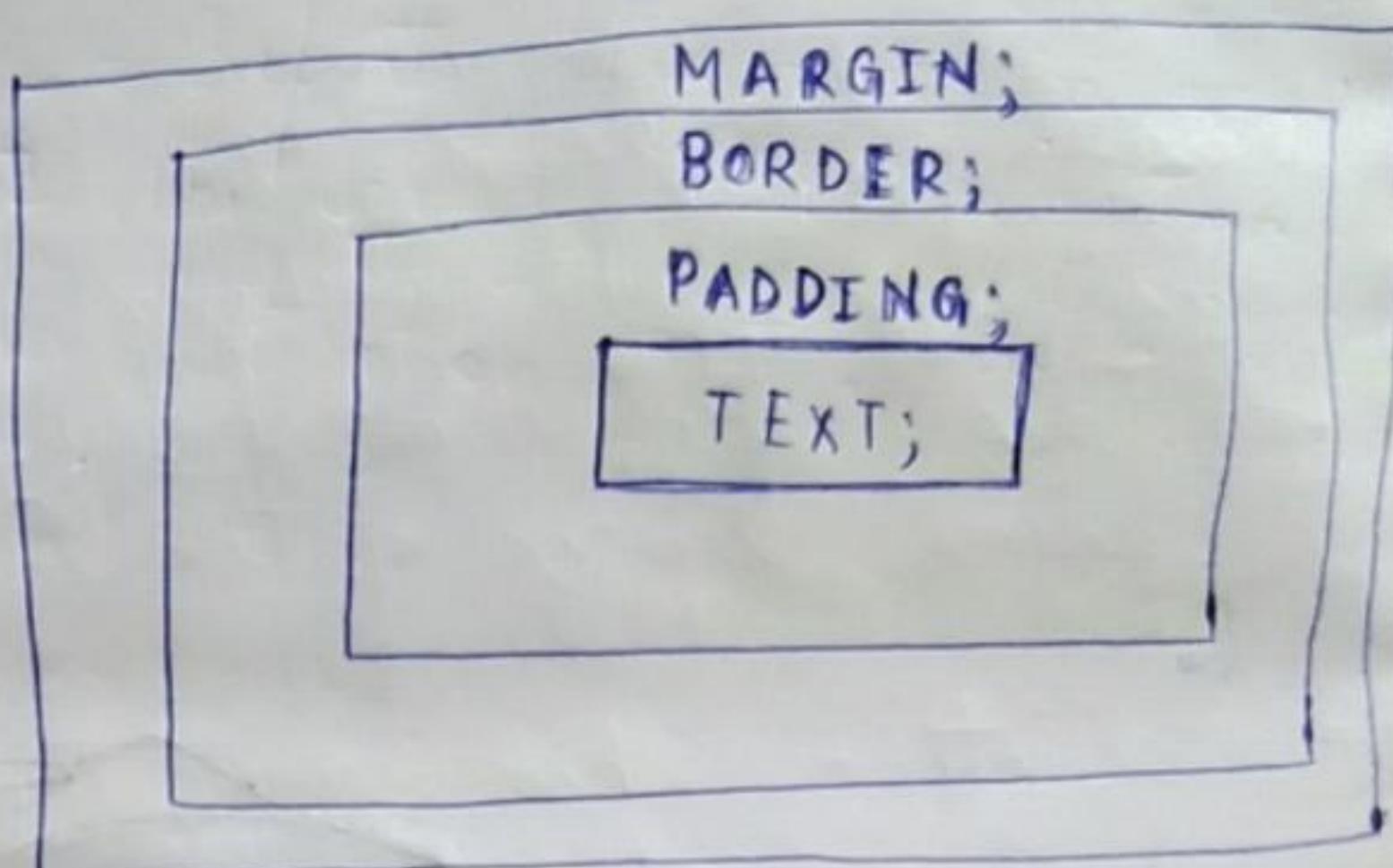
border-up-right-radius;

BOX - ELEMENTS = (~~V~~^{Very} ~~V~~^{Very} Important)

Padding = The inner core after text / character / image is termed as padding.

Syntax = Selector

```
{  
    padding: Value (In PX);  
}
```



The value goes like = UP > RIGHT > BOTTOM > LEFT.

Border = Border is used to give a box and outline to the padding.

Syntax = Selector

```
{  
    border: Value; (In PX)  
}
```

It is of various attributes = ~~border-left, border-right, border-up, border-bottom, border-radius.~~

) Margin = Margin is used to give boundary between two separated lines.

Syntax = Selector

```
{  
    margin: Value (In Pixels);  
}
```

It can also vary from top, bottom, right, left according to requirement.

3 Note = In our browser, we can inspect and modify various ~~comes~~ attributes to our code accordingly so that the output ~~comes~~ ~~comes~~ ~~comes~~ out to be effective.

± BACKGROUND PROPERTIES =

i) background-color = Specifies the background color.
Syntax = `background-color: Value;`

ii) background-image = Specifies the background image.
Or
Sets image at the background of the text.
Syntax = `background-image: url('URL');`

iii) background-position = Specifies initial position of the background image.
Syntax = `background-position: Value;`

→ The value of background position can be =
left top, left center, left bottom
right top, right center, right bottom
center top, center center, center bottom, x, y, xz, yz

iv) background-attachment = This indicates whether the image will be fixed or gets scrolled when the user scrolls the page.
Syntax = `background-attachment: Value;`

→ The value can be fixed / scroll.

v) background-repeat = This specifies whether the background image will get repeated or not.
Syntax = `background-repeat: repeat;`

~~values from here~~

a) Repeat = Repeats the image on page.

b) Repeat-x = Repeats the image in x-direction.

c) Repeat-y = Repeats the image in y-direction.

d) Repeat = No repetition / Iteration not displaying any image.

FLOAT AND CLEAR =

FLOAT = It shifts the text according to the instructions given on output screen.

Ex =

```
<STYLE>
  .HARSHIDA {
```

 Class Selector

 FLOAT: VALUE; ← Here value is left, right, top, bottom.

 </STYLE>

 <DIV CLASS = "HARSHIDA">

 <H1> THIS IS A HEADING </H1>

 <P> THIS IS A PARAGRAPH </P>

 </DIV>

* CLEAR = This attribute tag clears the effects of float in the output area.

Ex =

```
<STYLE>
```

 •MYCLASS {

 FLOAT: VALUE;

 CLEAR: AUTO/NONE;

 </STYLE> ~~<H1>~~

 <H1> THIS IS HEADING </H1>

 <P> THIS IS A PARAGRAPH </P>

 </DIV>

 </BODY>

values can be - a) Repeat = Repeats the image on page, b) Repeat-x = Repeats the image in x-direction c) Repeat-y = Repeats the image in y-direction d) Repeat = No repetition / Iteration not, displaying one image.

FLOAT AND CLEAR

FLOAT = It shifts the text according to the instructions given on output screen.

Ex =

```
<STYLE> .HARSHIDA {  
    float: value; ← Here value is left, right,  
    bottom.  
</STYLE>  
  
<DIV CLASS = "HARSHIDA">  
<H1> THIS IS A HEADING </H1>  
<P> THIS IS A PARAGRAPH </P>  
</DIV>
```

* CLEAR = This attribute tag clears the effects of float in the output area.

Ex =

```
<STYLE> .MYCLASS {  
    float: value;  
    clear: auto / none;  
</STYLE>  
<BODY> <H1> THIS IS HEADING </H1>  
<P> THIS IS A PARAGRAPH </P>  
</DIV>  
</BODY>
```

STYLING LINKS AND BUTTONS = Used to generate and change colors

Buttons and links

x = <STYLE>

```
• MYCLASS {  
    background-color: value;  
    color: value;  
    height: 1.6px;  
    width: 980px;  
}
```

```
A:HOVER {  
    A {  
        background-color: ORANGE;  
        background-color: GREEN;  
        color: WHITE;  
        text-decoration: none;  
        cursor: pointer;  
    }  
}
```

```
→ A:VISITED {  
    background-color: PINK;  
}
```

```
<DIV CLASS = "MYCLASS">  
<H3> THIS IS HEADING.</H3>  
<P> MY NAME IS HARSHIDA SHAILLY.</P>  
<A href = "HTTPS://GOOGLE.COM"> CLICK HERE  
</A>
```

```
<BUTTON CLASS = "SHAILLY"> PRESS HERE</BUTTON>
```

```
</DIV>
```

```
</BODY>
```

```
<HTML>
```

```
<HEAD>
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<TITLE>
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<SCRIPT>
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<LINK>
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<META>
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```

```
<HEAD>
```

```
<HTML>
```

CSS POSITION = It describes the position relative to cascading style sheets) the parent box.

is of various types =

Static = It is default position of Any tag element.

Absolute = Fixes Its position According to mentioned.

Relative = Relative to the page scroll, the position remains the same.

Sticky = It sticks somewhere on the screen After required movement According to commands

VISIBILITY AND Z INDEX =

Visibility is responsible for displaying the command of the visibility

If display becomes ^{hidden} none; then the command becomes Invisible but the area will remain there If display becomes none, then the area is also removed i.e., skipped.

z-index = Selector { visibility: Value; }

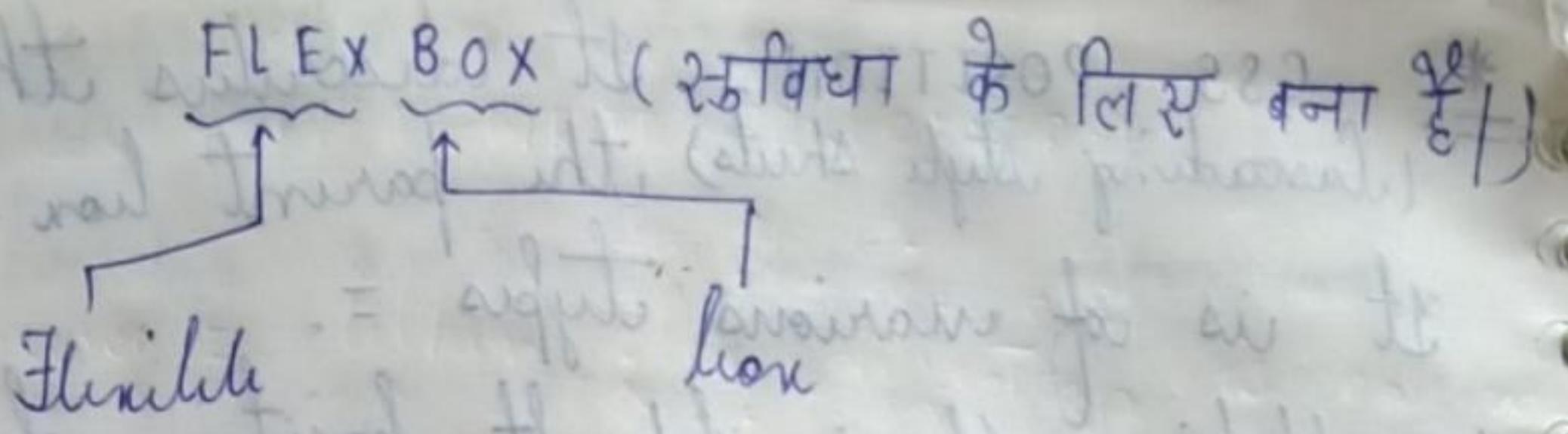
hidden ,
visible

- Index is used for the positioning of the command The greater the z-index, higher will be the position.

here, negative and positive value not matters.

Ex = $-165 > 65$ In According to z-index.

z-index = Selector { z-index: Value; }

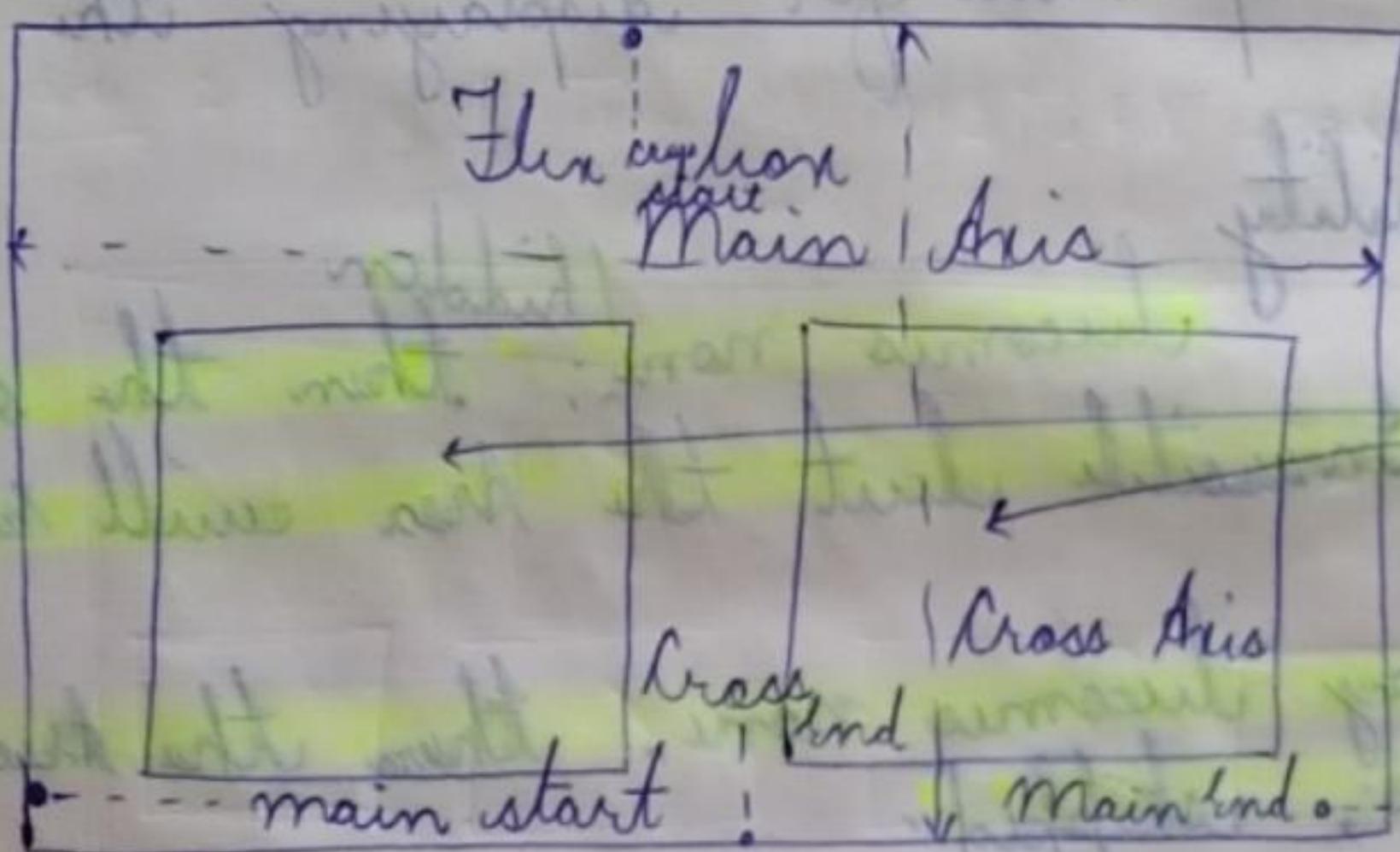


One-dimensional and useful in Aligning Items in Rows and Columns
 (Container)

Syntax = Selector { Property : Value ; }

display flex, the flex container gets created

Syntax = Selector { display : flex; }

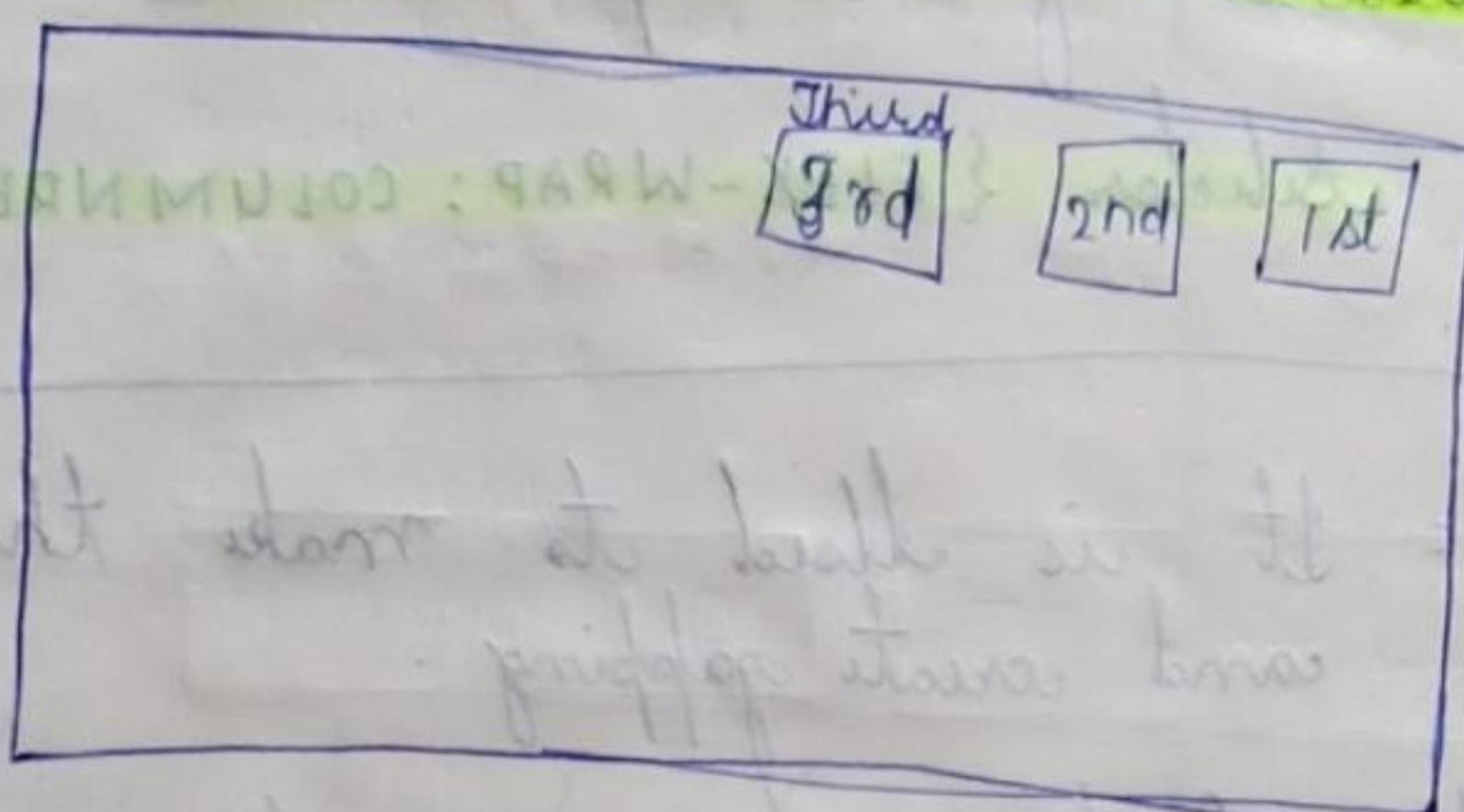


3 Note = X-Axis \Rightarrow Main Axis
 Y-Axis \Rightarrow Cross Axis

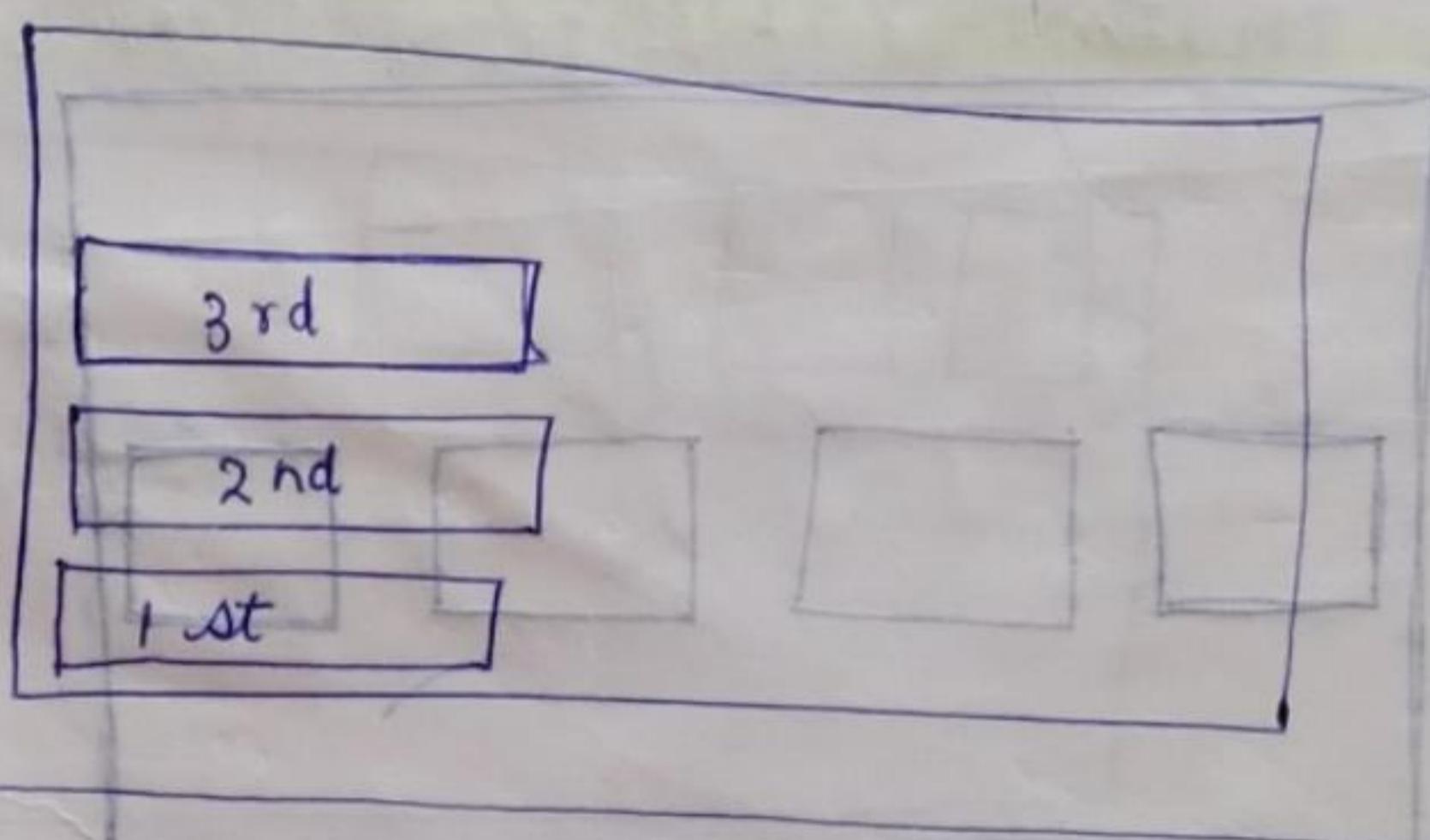
There are various properties in Flex-Box =
 Flex-direction = Shows where the commands are going to stay =
 They are of four types

a) Row = Align the commands in row
 Syntax = Selector { FLEX-DIRECTION: ROW; }

- b) Column = Align commands in column.
- Syntax = Selector { FLEX-DIRECTION: COLUMN; }
- c) Row - Reverse = Reverse the alignment of the row.
- Syntax = Selector { FLEX-DIRECTION: ROW-REVERSE; }



- d) Column - Reverse = Reverse the column alignment.
- Syntax = Selector { FLEX-DIRECTION: COLUMN-REVERSE; }



- ii) Flex Wrap = The feature giving its wrapping the text when screen is minimized.
→ The default value is no-wrap.
- i) No - Wrap = No wrapping occurs.
- Syntax = Selector { FLEX-WRAP: NOWRAP; }

- ii) Row - Reverse = If the flex direction is row or row-reverse then row/row-reverse wrap is used.

Syntax = Selector { FLEX-WRAP: ROW REVERSE; }

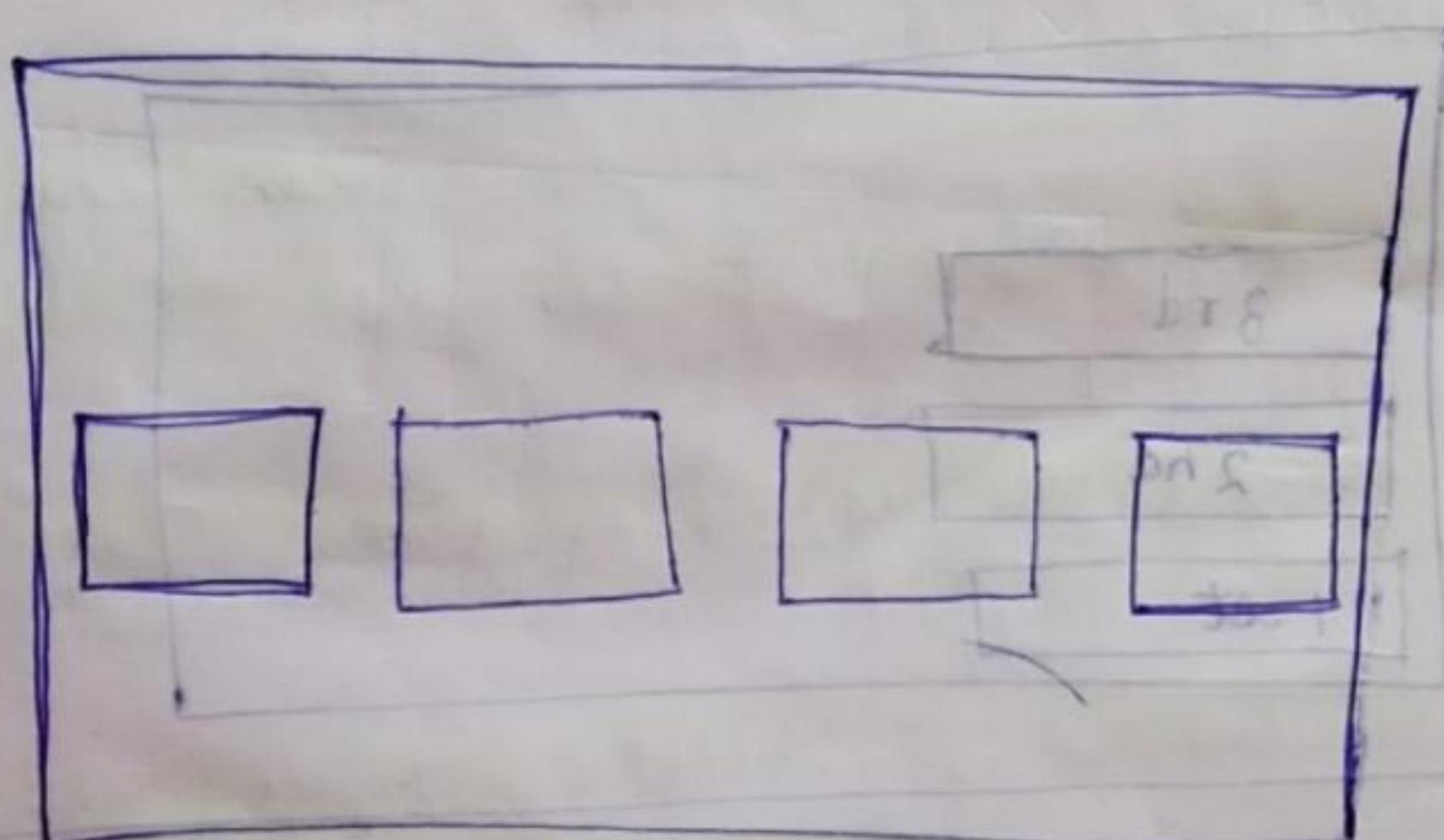
Column - Reverse = When flex direction is column
The column - reverse then column
column - reverse flex wrap is used.

Syntax = Selector { FLEX-WRAP: COLUMN REVERSE; }

justify = It is used to make the text more
and create gapping.

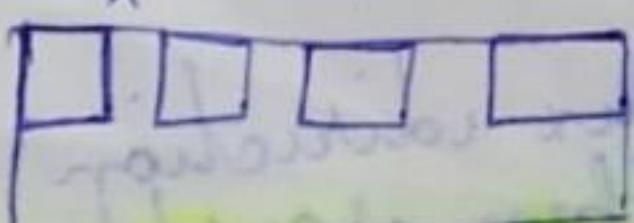
a) justify - center = It moves the commands and
texts to center.

Syntax = Selector { JUSTIFY-CONTENT: CENTER; }



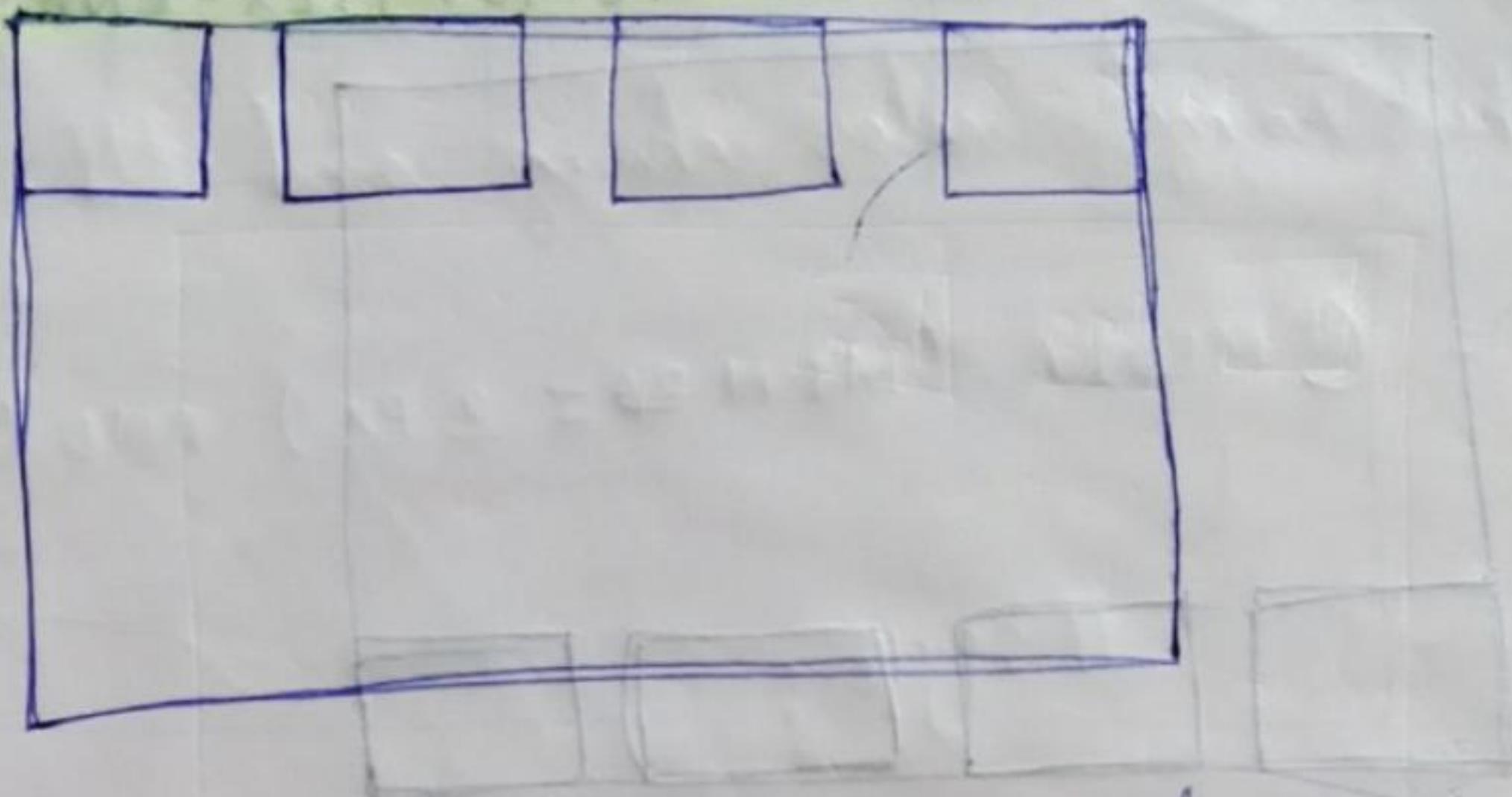
b) justify space-between = It is responsible in
giving uneven spacing
between two boxes but not at Right corner and
left - corner.

Syntax = Selector { JUSTIFY-CONTENT: SPACE-BETWEEN; }



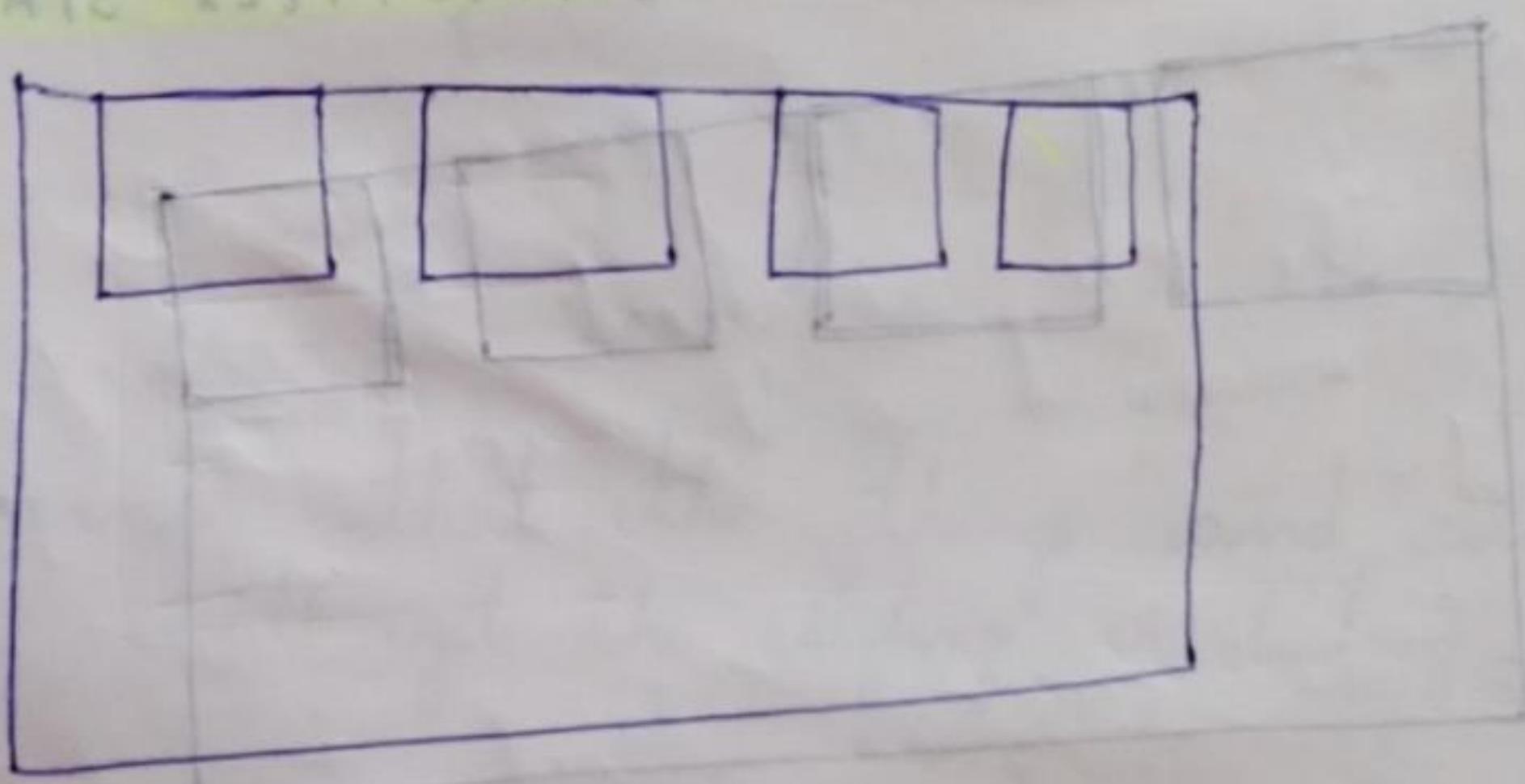
i) justify-space-around = The space between the boxes becomes same.

Syntax = Selector { JUSTIFY-CONTENT: SPACE-EVENLY; }



iv) justify-space-around = Gives space at each side of the boxes but not care that the space is equal or not.

Syntax = Selector { JUSTIFY-CONTENT: SPACE-AROU



iv) align-items = Align and changes the position of items.

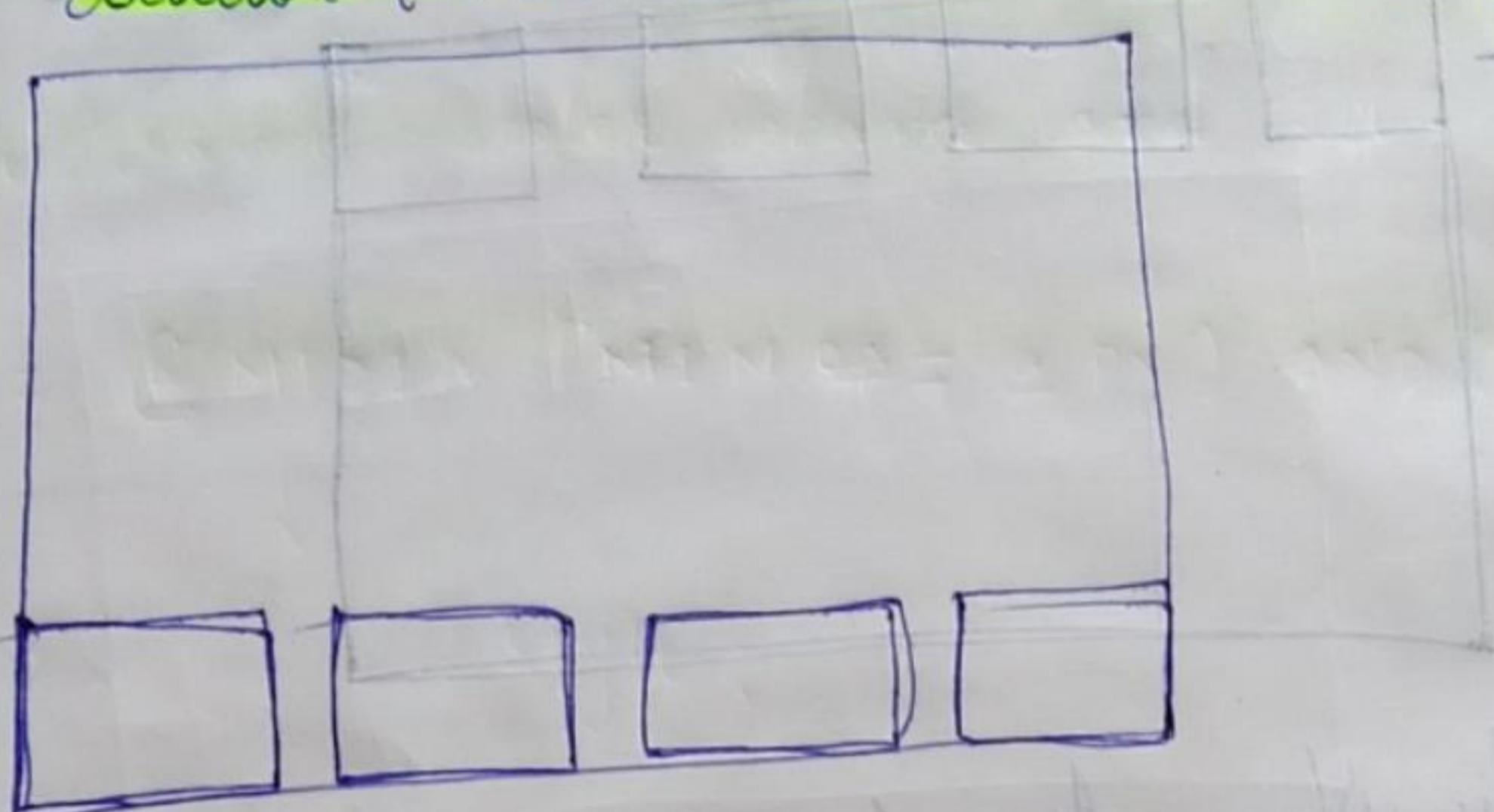
Various Types = align-items: center; justify-content: space-around;

a) Align-items center = Alignment at Center.

Syntax = Selector { ALIGN-ITEMS: CENTER; }

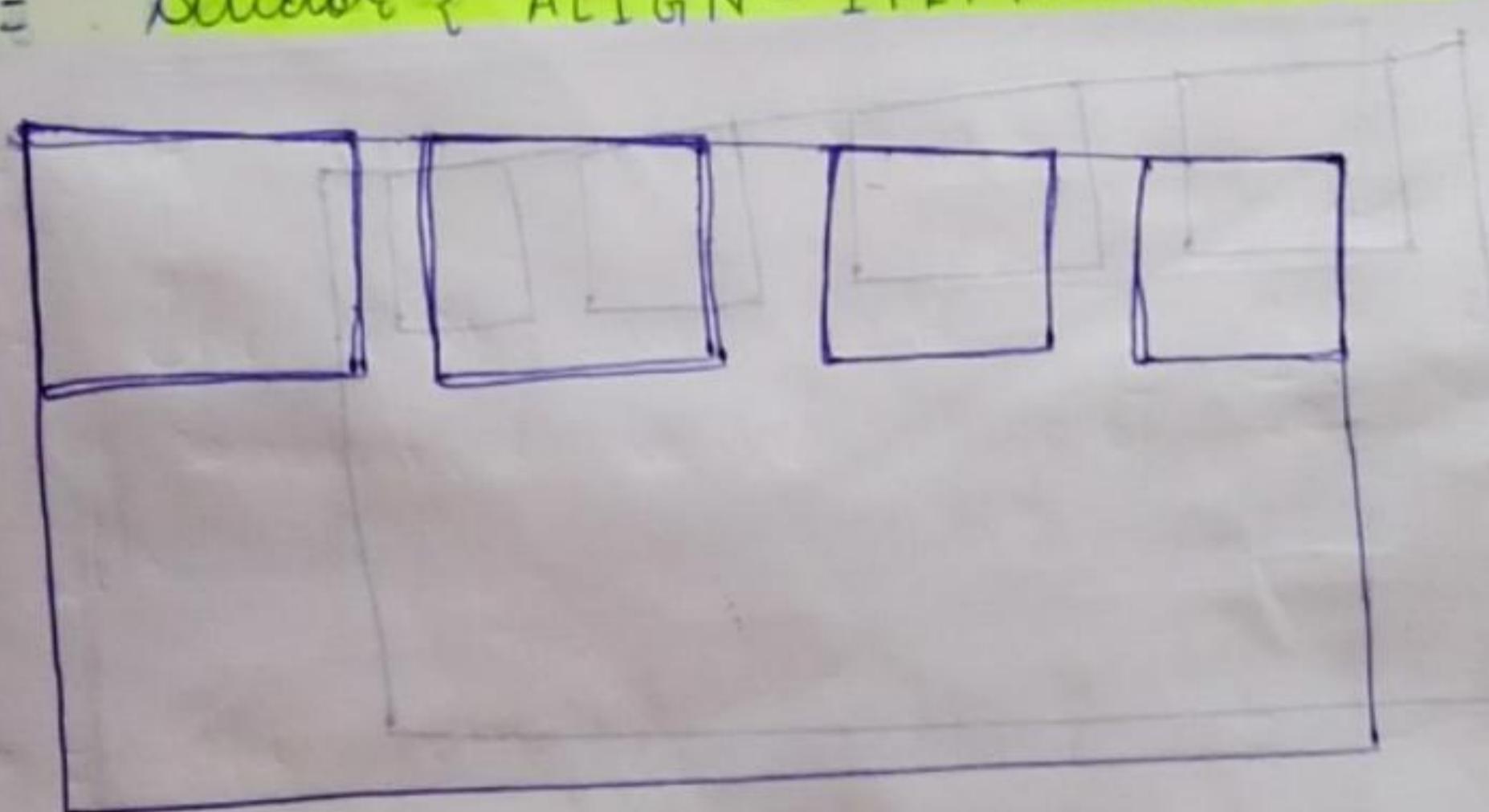
Align Items flex-end \Rightarrow Display the items at end (iii) of the page.

Syntax = Selector { ALIGN-ITEMS: FLEX-END; }



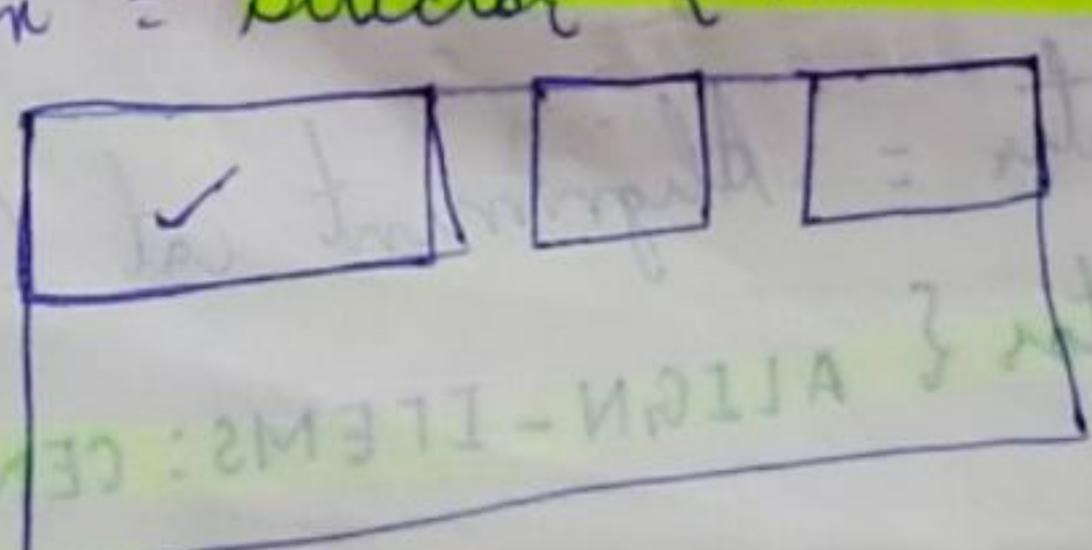
Align Items Flex Start = Align Items at the starting of the page.

Syntax = Selector { ALIGN-ITEMS: FLEX-START; }

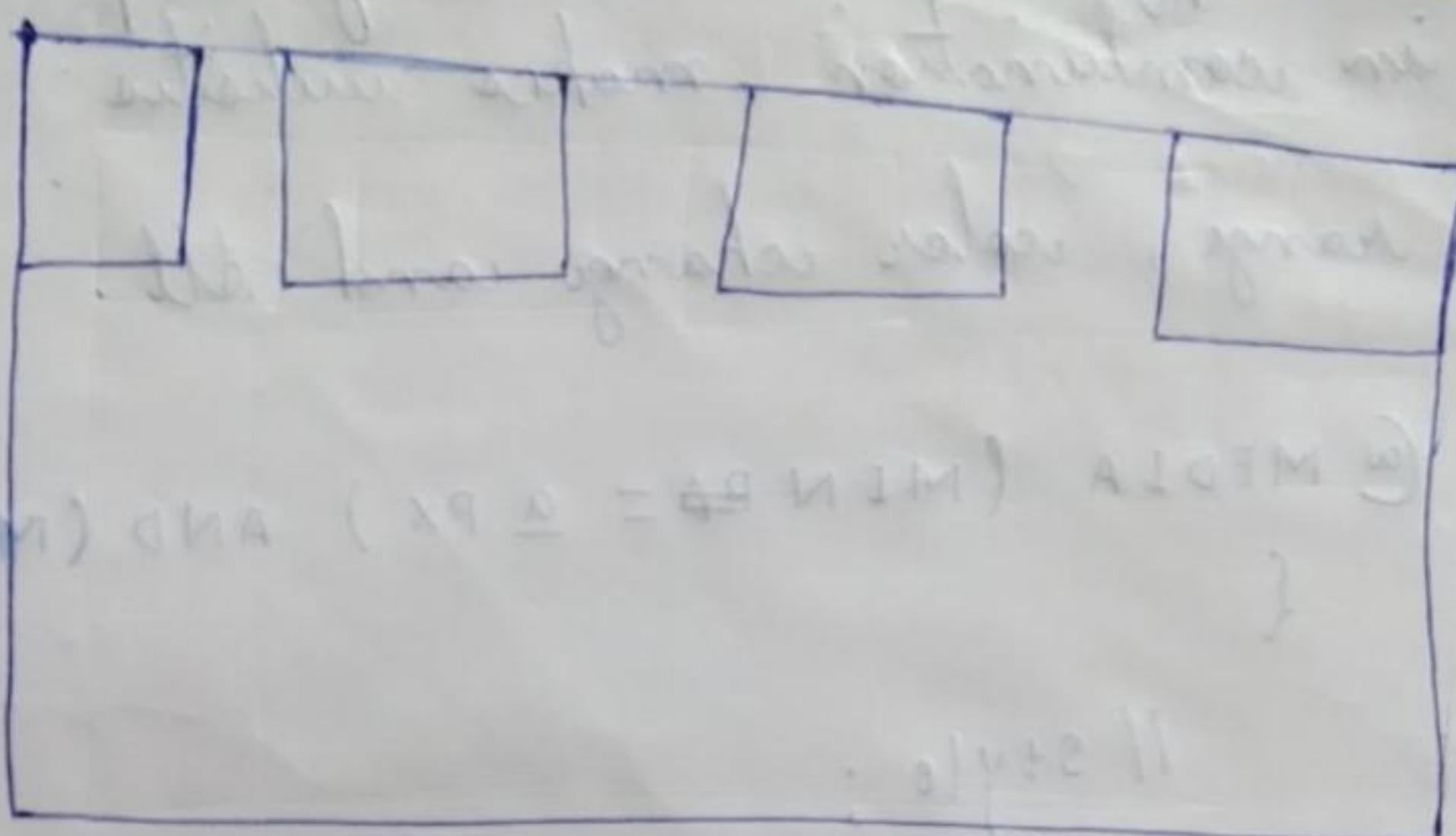


d) Align Items Flex Stretch = Align Items and stretches it.

Syntax = Selector { ALIGN-ITEMS: STRETCH; }



e) Align Items Shrink = Align Items got shrinked.
(smaller / thin)
Syntax = Selector { ALIGN-ITEMS: SHRINK; }



* ADVANCED SELECTORS IN CSS (CASCADING STYLE SHEETS) =

i) Syntax = Selector₁ > Selector₂

{

}

This means that the things and commands of selector 1 will get the styling excluding ~~the~~ selector 2.

ii) Syntax = Selector₁ + Selector₂

{

This means that the selector which is post sibling of selector 1.