

# Web Engineering

## Lect 10 (Flux Box)

Instructor: Faheem Shaukat

Meeting Hours

Wednesday and Thursday

12PM to 02PM

# Why We Use Flex Box

Choose your  
Microsoft 365

Explore Surface  
devices

Buy Xbox games

Shop for  
Windows 10



## Microsoft Teams

Chat, meet, call and collaborate.

[Learn more >](#)



## This is your 365

Discover what's possible every day with Microsoft 365.

[For up to 6 people >](#)

[For 1 person >](#)



## Surface Laptop 3

Express yourself powerfully with a thin, light, and elegant design, faster performance, and up to 11.5 hours battery life.

[Shop now >](#)



## Microsoft Flight Simulator: Standard

Fly highly detailed and stunning aircraft in an incredibly realistic world.

[Explore now >](#)

[Join with Xbox Game Pass >](#)

This is one example

You can create any layout.

## Xbox Game Pass Ultimate

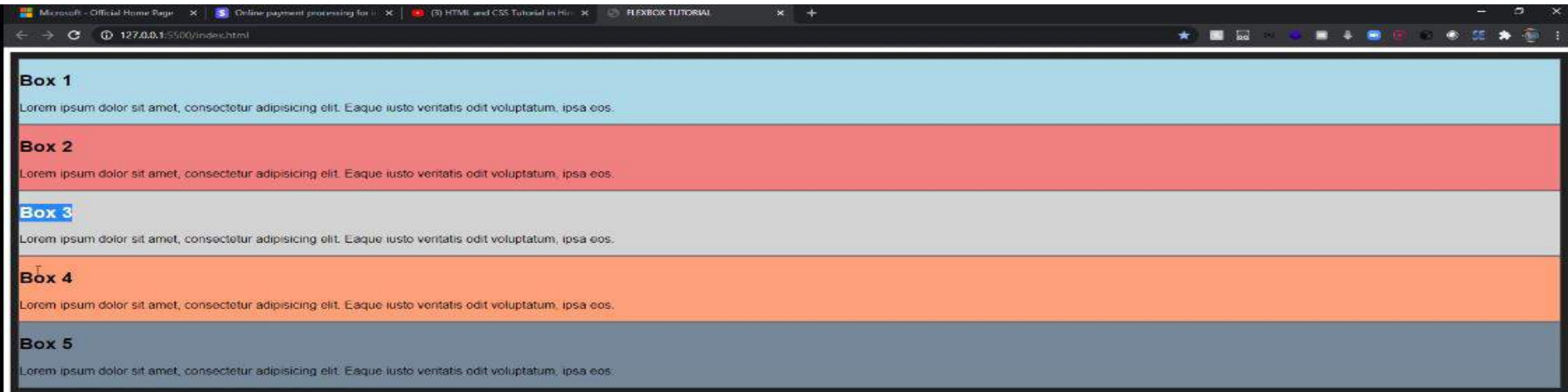
Xbox Live Gold and over 100 high-quality console and PC games. Play together with friends and discover your next favourite game.

[Join now >](#)



Box Structure instead of flow

# Box Structure Instead of flow



```
File Edit Selection View Go Run Terminal Help
index.html - 01 Introduction to Flexbox - Visual Studio Code

index.html x # style.css
index.html > html > body > div.box-wrapper > div.box.box-1

9 <body>
10   <div class="box-wrapper">
11     <div class="box box-1">
12       <h2>Box 1</h2>
13       <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit vo
14     </div>
15     <div class="box box-2">
16       <h2>Box 2</h2>
17       <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit vo
18     </div>
19     <div class="box box-3">
20       <h2>Box 3</h2>
21       <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit vo
22     </div>
23     <div class="box box-4">
24       <h2>Box 4</h2>
25       <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit vo
26     </div>
27     <div class="box box-5">
28       <h2>Box 5</h2>
29       <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit vo
30     </div>
31   </div>
32 </body>
```

```
File Edit Selection View Go Run Terminal Help
style.css - 01 Introduction to Flexbox - Visual Studio Code

# style.css > .box
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6 }
7
8 .box{
9     border: 1px solid #666;
10 }
11
12 .box-1{
13     background: lightblue;
14 }
15 .box-2{
16     background: lightcoral;
17 }
18 .box-3{
19     background: lightgrey;
20 }
21 .box-4{
22     background: lightsalmon;
23 }
24 .box-5{
```

Ln 9, Col 28 (15 selected) Spaces: 4 UTF-8 CRLF CSS Port: 5500 7:31 PM 9/1/2020



```
File Edit Selection View Go Run Terminal Help
• style.css - 01 Introduction to Flexbox - Visual Studio Code

# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7 }
8
9 .box{
10     border: 1px solid #666;
11 }
12
13 .box-1{
14     background: lightblue;
15 }
16 .box-2{
17     background: lightcoral;
18 }
19 .box-3{
20     background: lightgrey;
21 }
22 .box-4{
23     background: lightsalmon;
24 }
```

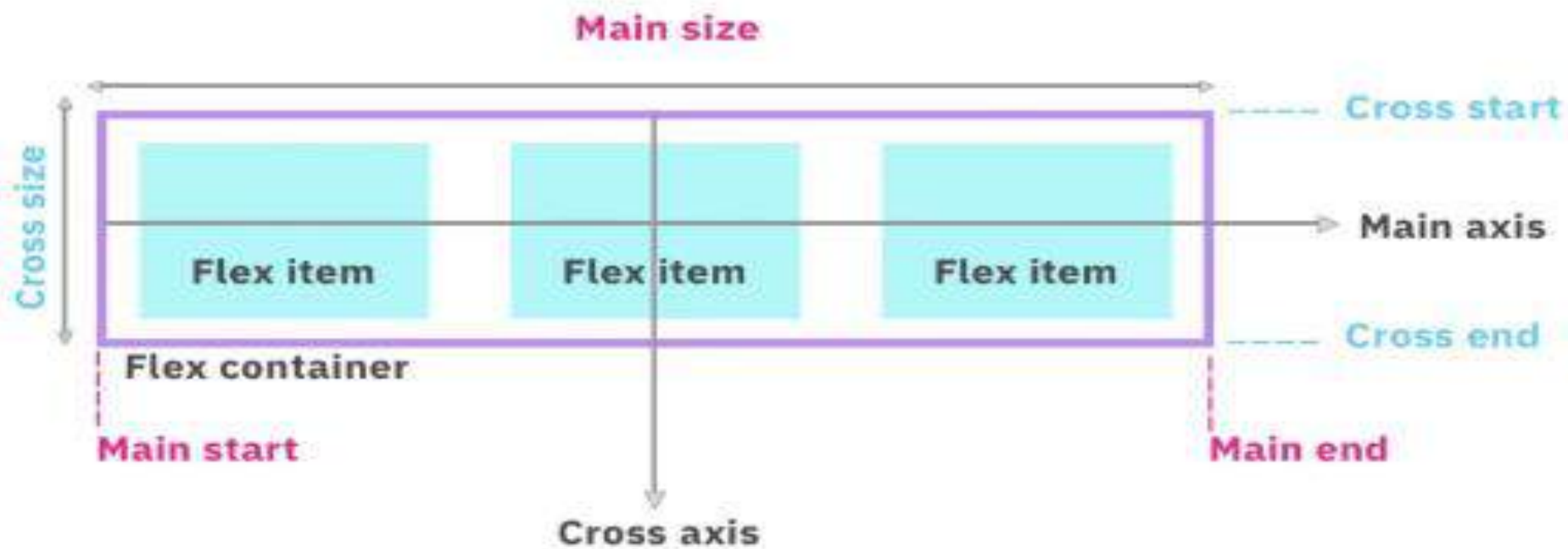
Ln 6, Col 19 Spaces: 4 UTF-8 CRLF CSS Port: 5500 7:52 PM 9/1/2020

# Two Things in Flex

- Flex Container Flux Item



# Flexbox Terminology



# Flex Container Properties

- Display Flex will adjust all content in flow
- Flex direction Row or Column

Firefox Terminology - Google S... x FLEXBOX TUTORIAL x +

127.0.0.1:5500/index.html

Box 1	Box 2	Box 3	Box 4	Box 5
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.	Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.	Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.	Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.	Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

I

Windows taskbar: 12:18 AM 9/2/2020

File Edit Selection View Go Run Terminal Help

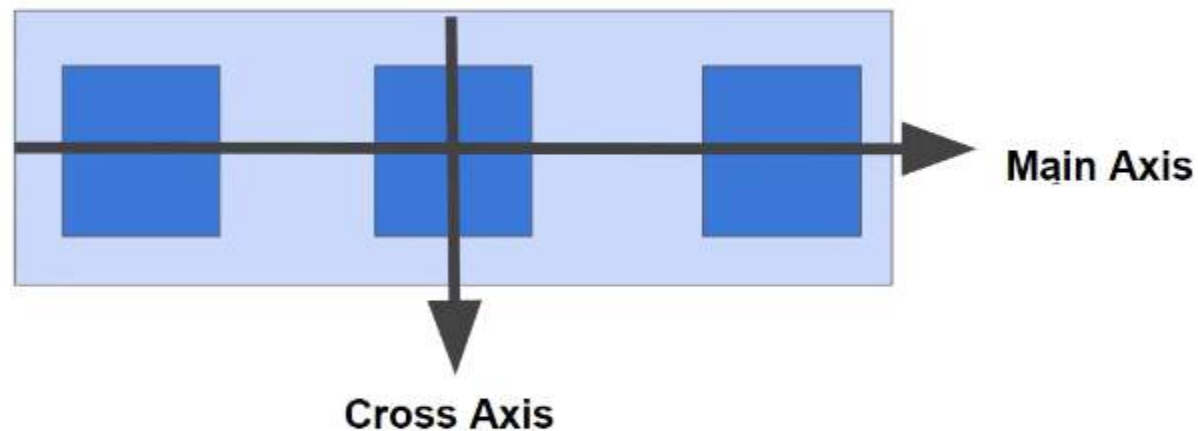
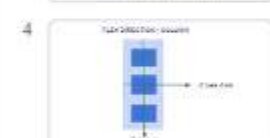
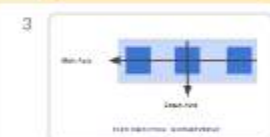
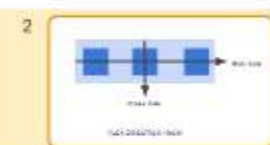
style.css - 01 Introduction to Flexbox - Visual Studio Code

index.html style.css

# style.css > .box-wrapper

```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     flex-direction: row;
8 }
9
10 .box{
11     border: 1px solid #666;
12 }
13
14 .box-1{
15     background: lightblue;
16 }
17 .box-2{
18     background: lightcoral;
19 }
20 .box-3{
21     background: lightgrey;
22 }
23 .box-4{
24     background: lightsalmon;
```

Ln 7, Col 24 Spaces 4 UTF-8 CRLF CSS Port: 5500 12:18 AM 9/2/2020



**FLEX DIRECTION : ROW**

Click to add speaker notes



```
File Edit Selection View Go Run Terminal Help
• style.css - 01 Introduction to Flexbox - Visual Studio Code

# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     /* flex-direction: row; */
8     flex-direction: row-reverse;
9 }
10
11 .box{
12     border: 1px solid #666;
13 }
14
15 .box-1{
16     background: lightblue;
17 }
18 .box-2{
19     background: lightcoral;
20 }
21 .box-3{
22     background: lightgrey;
23 }
24 .box-4{
```

Ln 8, Col 32 Spaces: 4 UTF-8 CRLF CSS Port: 5500 12:18 AM



Flexbox Terminology - Google Slides

Flexbox Terminology

File Edit View Insert Format Slide Arrange Tools Add-ons Help Last edit was 8 minutes ago

Present Share

Background Layout Theme Transition

1 Flexbox Terminology

2

3

4

5

Main Axis

Cross Axis

FLEX DIRECTION : ROW-REVERSE

Click to add speaker notes

12:21 AM 9/2/2020

```
File Edit Selection View Go Run Terminal Help
* style.css - 01 Introduction to Flexbox - Visual Studio Code

# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     /* flex-direction: row; */
8     /* flex-direction: row-reverse; */
9     flex-direction: column;
10 }
11
12 .box{
13     border: 1px solid #666;
14 }
15
16 .box-1{
17     background: lightblue;
18 }
19 .box-2{
20     background: lightcoral;
21 }
22 .box-3{
23     background: lightgrey;
24 }
```

column  
column-reverse

Ln 9, Col 27 Spaces: 4 UTF-8 CRLF CSS Port: 5500 12:20 AM 9/2/2020

Flexbox Terminology - Google Slides | FLEXBOX TUTORIAL

docs.google.com/presentation/d/1sp.../edit#slide=id.g9628ea9bd1\_0\_36

Flexbox Terminology

File Edit View Insert Format Slide Arrange Tools Add-ons Help Last edit was 8 minutes ago

Present Share

Background Layout Theme Transition

### FLEX DIRECTION : COLUMN

Click to add speaker notes

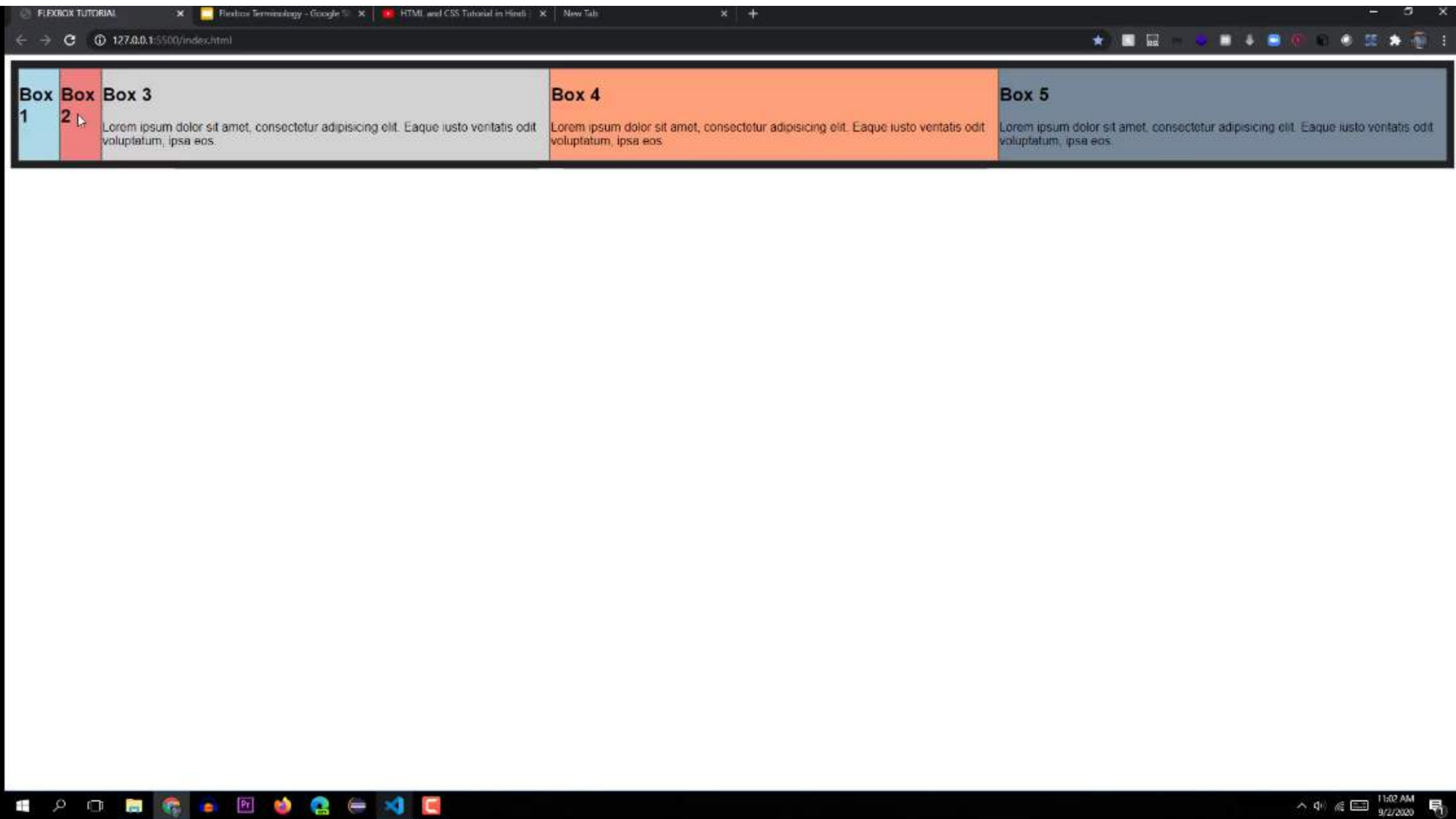
12:21 AM 9/2/2020

# Flex Wrap

- Content sizing by material in it by auto width
- Suppose we change width it will not effect
- So we need flex wrap property to see effect

```
File Edit Selection View Go Run Terminal Help
index.html - 01 Introduction to Flexbox - Visual Studio Code

index.html x # style.css
index.html > html > body > div.box-wrapper > div.box-box-2
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <link rel="stylesheet" href="style.css">
7 <title>FLEXBOX TUTORIAL</title>
8 </head>
9 <body>
10 <div class="box-wrapper">
11 <div class="box box-1">
12 <h2>Box 1</h2>
13 <!-- <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis od
14 </div>
15 <div class="box box-2">
16 <h2>Box 2</h2>
17 <!-- <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis od
18 </div>
19 <div class="box box-3">
20 <h2>Box 3</h2>
21 <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit vo
22 </div>
23 <div class="box box-4">
24 <h2>Box 4</h2>
25 <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit vo
26 </div>
27 <div class="box box-5">
28 <h2>Box 5</h2>
```





```
File Edit Selection View Go Run Terminal Help
style.css - 01 Introduction to Flexbox - Visual Studio Code

index.html style.css
# style.css > .box
font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7
8 }
9
10 .box{
11     border: 1px solid #666;
12     width: 500px;
13 }
14
15 .box-1{
16     background: lightblue;
17 }
18 .box-2{
19     background: lightcoral;
20 }
21 .box-3{
22     background: lightgrey;
23 }
24 .box-4{
25     background: lightsalmon;
```

Ln 12, Col 18 Spaces: 4 UTF-8 CRLF CSS Port: 5500 11:03 AM 9/2/2020

```
File Edit Selection View Go Run Terminal Help
style.css - 01 Introduction to Flexbox - Visual Studio Code

index.html # style.css
# style.css > .box-wrapper
font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     flex-wrap: wrap;
8 }
9
10 .box{
11     border: 1px solid #666;
12     width: 500px;
13 }
14
15 .box-1{
16     background: lightblue;
17 }
18 .box-2{
19     background: lightcoral;
20 }
21 .box-3{
22     background: lightgrey;
23 }
24 .box-4{
25     background: lightsalmon;
```

Ln 7, Col 21 Spaces 4 UTF-8 CRLF CSS Port: 5500 11:04 AM 9/2/2020



Developer Tools Interface:

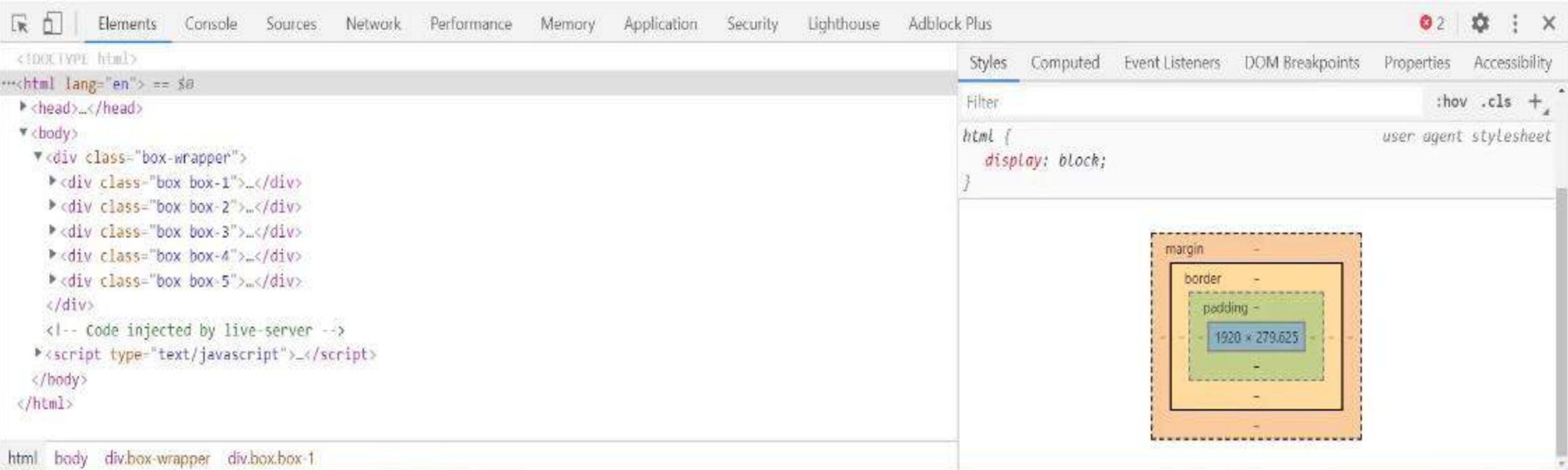
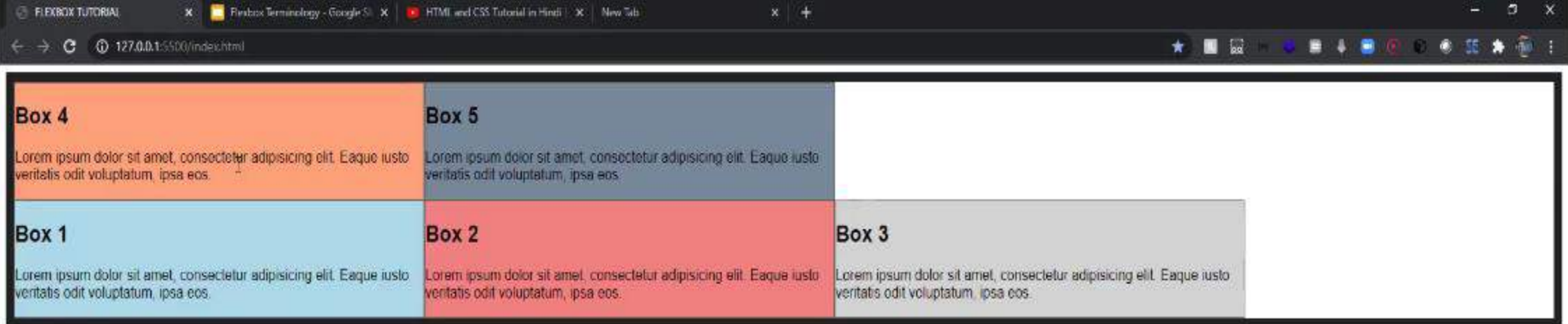
- Elements Panel:** Shows the HTML structure. The selected element is `<div class="box box-1">...</div>` under `<div class="box-wrapper">...`. The full HTML structure is as follows:

```
<!DOCTYPE html>
<html lang="en">
  <head>
  </head>
  <body>
    <div class="box-wrapper">
      <div class="box box-1">...</div>
      <div class="box box-2">...</div>
      <div class="box box-3">...</div>
      <div class="box box-4">...</div>
      <div class="box box-5">...</div>
    </div>
    <!-- Code injected by live-server -->
    <script type="text/javascript">...</script>
  </body>
</html>
```
- Styles Panel:** Shows the default `display: block;` style from the user agent stylesheet for the `html` element.
- Diagram:** A visual representation of the box model showing nested layers: margin (orange dashed), border (black solid), padding (green dashed), and the content area (blue solid) with dimensions 1920 x 279.625.

```
File Edit Selection View Go Run Terminal Help
style.css - 01 Introduction to Flexbox - Visual Studio Code

index.html # style.css x
# style.css > .box-wrapper
1 font-family: Arial, Helvetica, sans-serif;
2
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     flex-wrap: wrap-reverse;
8 }
9
10 .box{
11     border: 1px solid #666;
12     width: 500px;
13 }
14
15 .box-1{
16     background: lightblue;
17 }
18 .box-2{
19     background: lightcoral;
20 }
21 .box-3{
22     background: lightgrey;
23 }
24 .box-4{
25     background: lightsalmon;
```

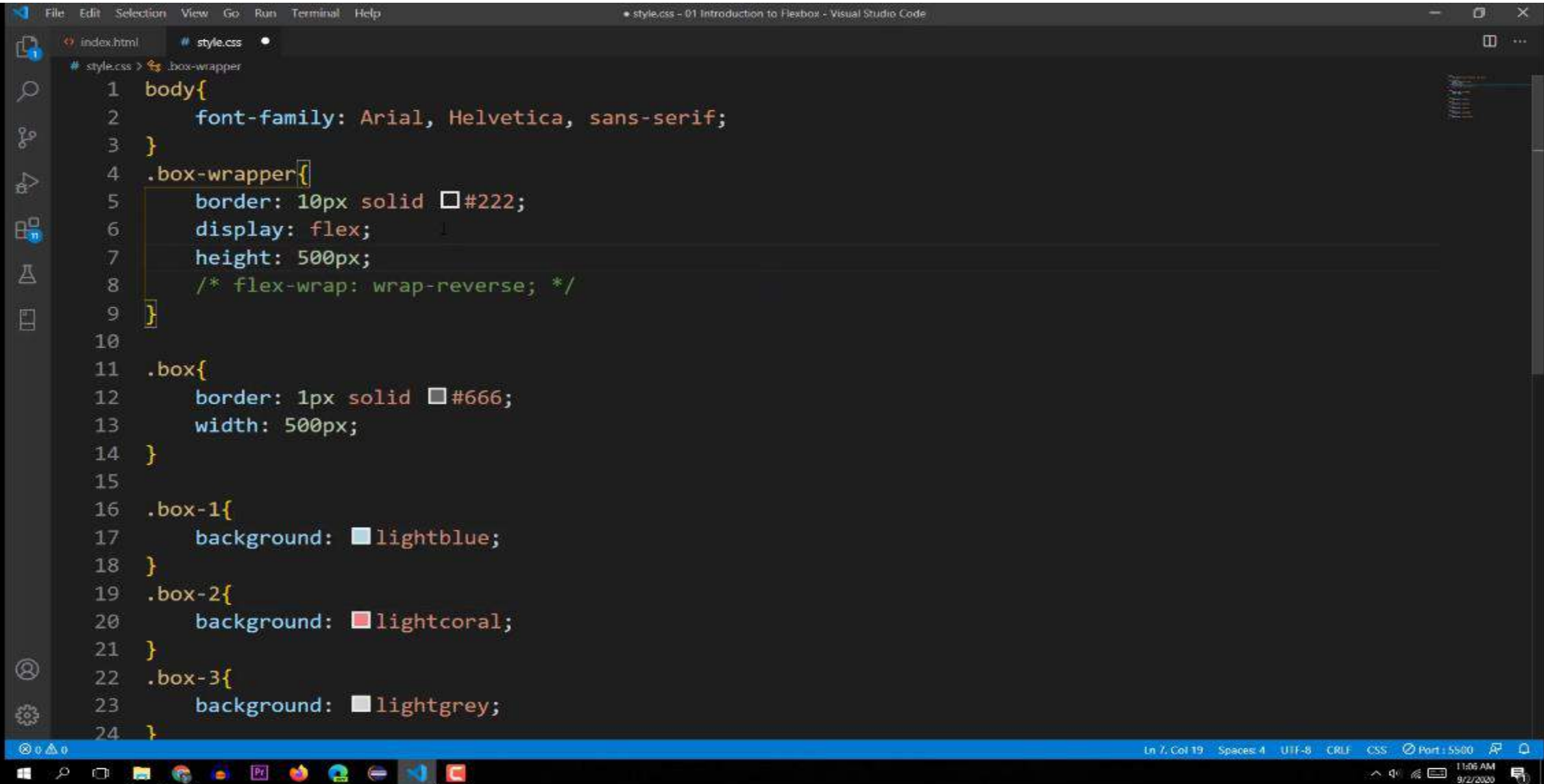
Ln 7, Col 29 Spaces: 4 UTF-8 CRLF CSS Port: 5500 11:06 AM 9/2/2020





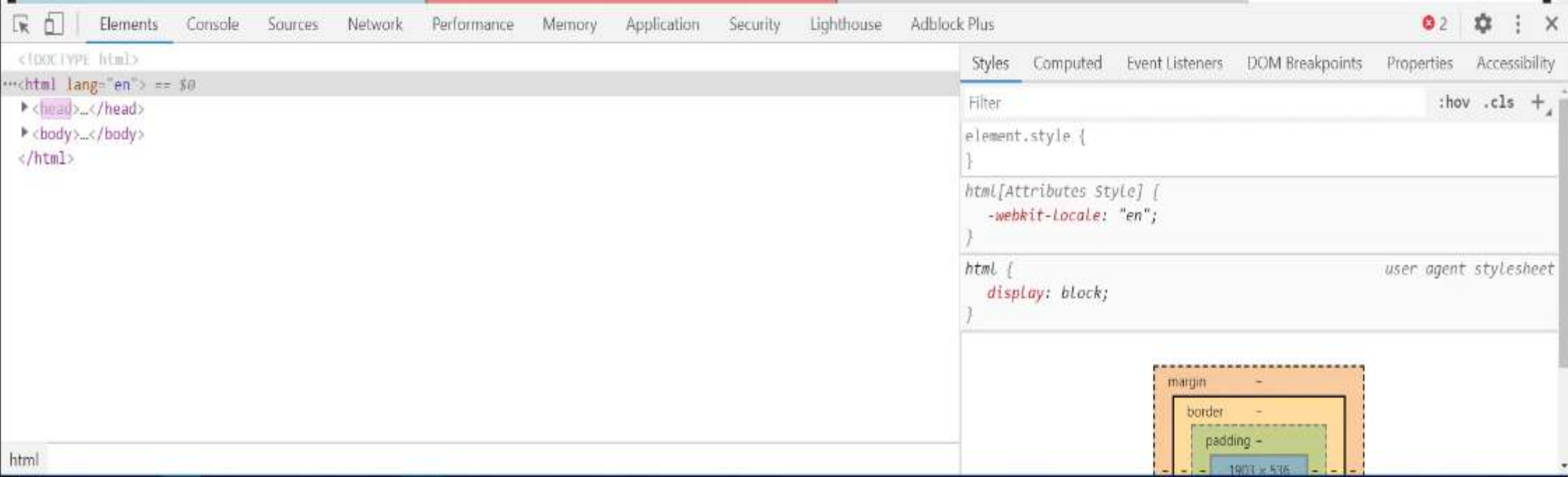
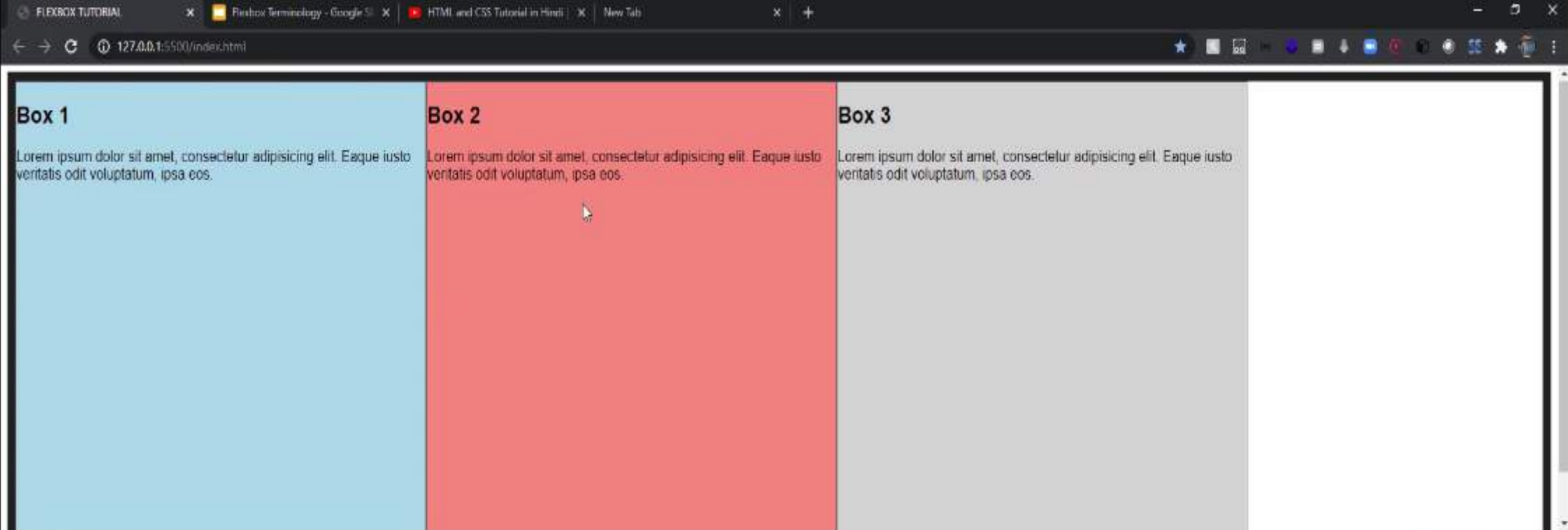


# Due to height content stretch



The image shows a screenshot of the Visual Studio Code editor with a dark theme. The editor is open to a file named 'style.css' in a project titled '01 Introduction to Flexbox'. The code defines a flexbox layout. The 'body' has a font-family of 'Arial, Helvetica, sans-serif'. The '.box-wrapper' has a border of 10px solid black, a display of flex, a height of 500px, and a commented-out flex-wrap of wrap-reverse. The '.box' class has a border of 1px solid black and a width of 500px. Three child boxes are defined: '.box-1' with a lightblue background, '.box-2' with a lightcoral background, and '.box-3' with a lightgrey background. The status bar at the bottom shows 'Ln 7, Col 19', 'Spaces: 4', 'UTF-8', 'CRLF', 'CSS', and 'Port: 5500'. The system tray at the bottom right shows the time as 11:06 AM on 9/2/2020.

```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid black;
6     display: flex;
7     height: 500px;
8     /* flex-wrap: wrap-reverse; */
9 }
10
11 .box{
12     border: 1px solid black;
13     width: 500px;
14 }
15
16 .box-1{
17     background: lightblue;
18 }
19 .box-2{
20     background: lightcoral;
21 }
22 .box-3{
23     background: lightgrey;
24 }
```



```
File Edit Selection View Go Run Terminal Help
* style.css - 01 Introduction to Flexbox - Visual Studio Code

# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     /* flex-wrap: nowrap */
8     /* flex-wrap: wrap-reverse; */
9     flex-direction: column;
10 }
11
12 .box{
13     border: 1px solid #666;
14     width: 500px;
15 }
16 }
17
18 .box-1{
19     background: lightblue;
20 }
21 .box-2{
22     background: lightcoral;
23 }
24 .box-3{
```

03:41

Ln 9, Col 28 Spaces: 4 UTF-8 CRLF CSS Port: 5500 11:08 AM 9/2/2020

Flexbox Terminology - Google

HTML and CSS Tutorial in Hindi

New Tab

docs.google.com/presentation/d/1so.NtjERvSIQIDgP0BsvTVIEYNsuhdTe2gOGDe6Fbk/edit#slide=id.g962bea9ed1\_0\_36

Flexbox Terminology

File Edit View Insert Format Slide Arrange Tools Add-ons Help

Last edit was 11 hours ago

Present Share

Background Layout Theme Transition

1 2 3 4 5 6 7 8 9

1 Flexbox Terminology

2

3

4 Flex Direction: column

5

# FLEX DIRECTION : COLUMN

Click to add speaker notes

04:06

11:03 AM 9/2/2020

FLEXBOX TUTORIAL

Flexbox Terminology - Google

HTML and CSS Tutorial in Hindi

New Tab

127.0.0.1:5500/index.html

Box 2

Box 3

Box 4

Box 5

Elements

Console

Sources

Network

Performance

Memory

Application

Security

Lighthouse

Adblock Plus

<!DOCTYPE html>

<html lang="en"> == \$0

>>> <head>...</head>

>>> <body>...</body>

</html>

Styles

Computed

Event Listeners

DOM Breakpoints

Properties

Accessibility

Filter

:hov .cls +

element.style {

}

html[Attributes Style] {

-webkit-locale: "en";

}

html {

display: block;

}

user agent stylesheet

margin

border

padding

1903 x 645.061

html

04:06

11:08 AM

9/2/2020



index.html

# style.css

# style.css &gt; .box-wrapper

```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 400px;
8     /* flex-wrap: nowrap */
9     /* flex-wrap: wrap-reverse; */
10    flex-direction: column;
11 }
12
13 .box{
14     border: 1px solid #666;
15     width: 500px;
16
17 }
18
19 .box-1{
20     background: lightblue;
21 }
22 .box-2{
23     background: lightcoral;
24 }
```

04:06

Ln 7, Col 19 Spaces: 4 UTF-8 CRLF CSS Port: 5500

11:08 AM

9/2/2020



```
File Edit Selection View Go Run Terminal Help
+ style.css - 01 Introduction to Flexbox - Visual Studio Code

# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 400px;
8     /* flex-wrap: nowrap */
9     /* flex-wrap: wrap-reverse; */
10    flex-direction: column;
11    flex-wrap: wrap;
12 }
13
14 .box{
15     border: 1px solid #666;
16     width: 500px;
17
18 }
19
20 .box-1{
21     background: lightblue;
22 }
23 .box-2{
24     background: lightcoral;
```

### Box 1

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

### Box 2

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

### Box 3

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

### Box 4

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

### Box 5

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

```
<!DOCTYPE html>
<html lang="en" == $0
  <head>...</head>
  <body>...</body>
</html>
```

Filter :hov .cls +

```
element.style {
}

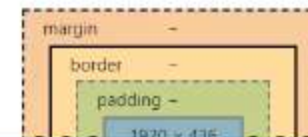
html[Attributes Style] {
  -webkit-Locale: "en";
}

html {
  display: block;
}
```

user agent stylesheet

html

04:06



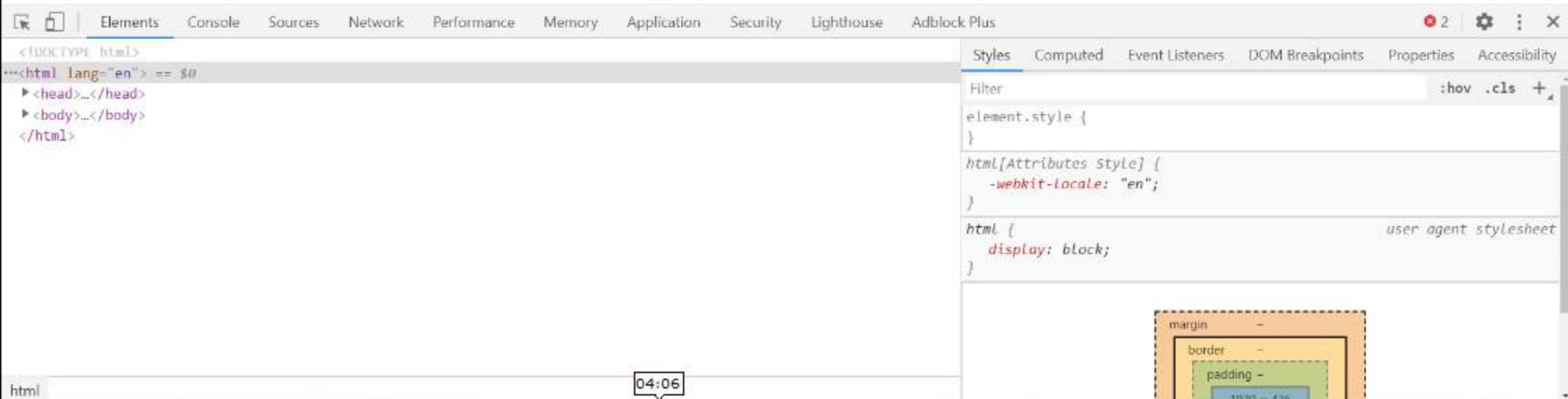
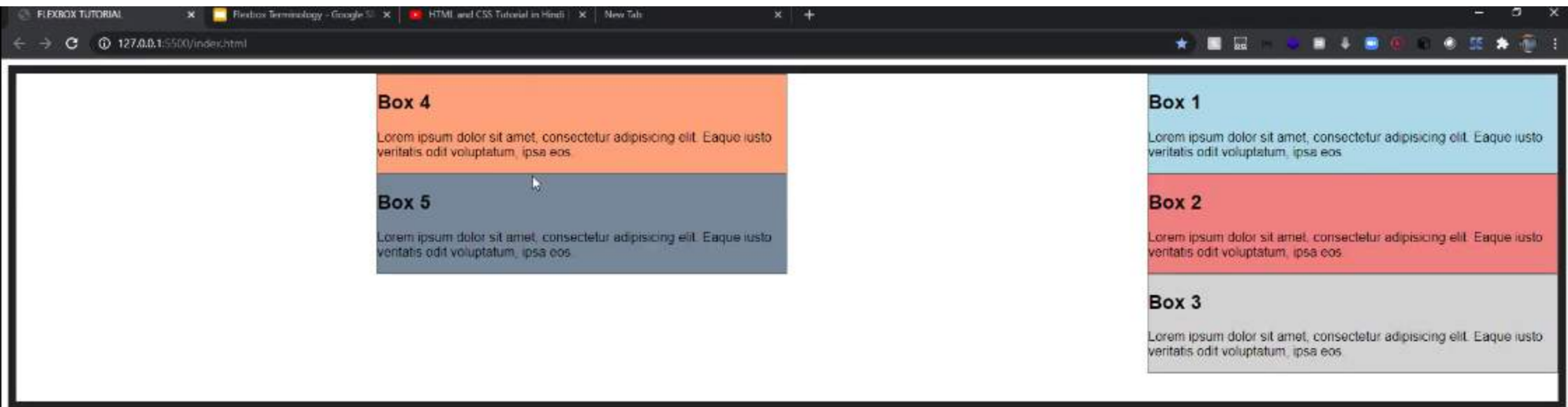
```
File Edit Selection View Go Run Terminal Help
• style.css - 01 Introduction to Flexbox - Visual Studio Code

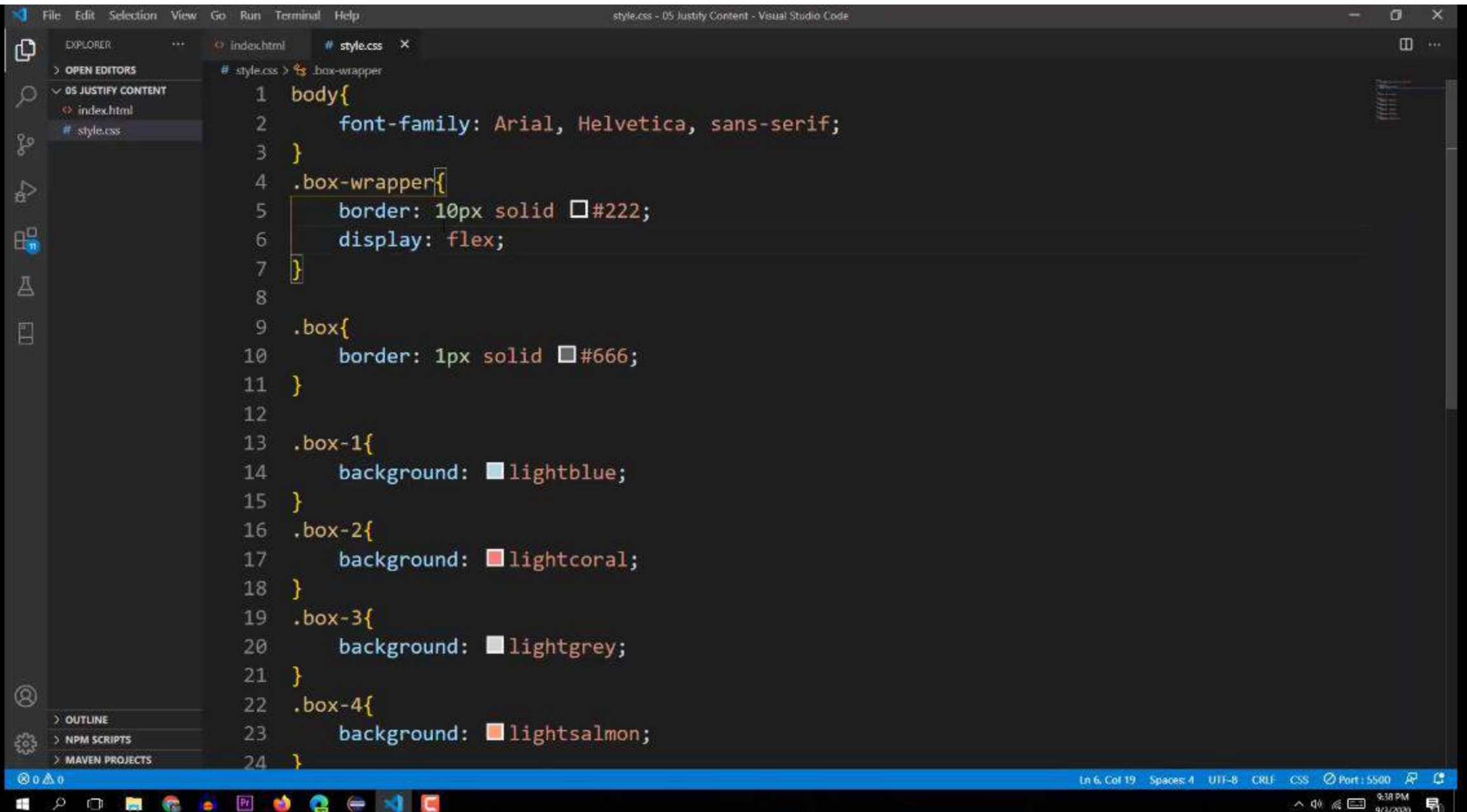
index.html # style.css
# style.css > .box-wrapper

1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 400px;
8     /* flex-wrap: nowrap */
9     /* flex-wrap: wrap-reverse; */
10    flex-direction: column;
11    flex-wrap: wrap-reverse;
12 }
13
14 .box{
15     border: 1px solid #666;
16     width: 500px;
17 }
18 }
19
20 .box-1{
21     background: lightblue;
22 }
23 .box-2{
24     background: lightcoral;
```

04:06

Ln 11, Col 28 Spaces: 4 UTF-8 CRLF CSS Port: 5500 11:10 AM 9/2/2020







```
File Edit Selection View Go Run Terminal Help
index.html - 05 Justify Content - Visual Studio Code

EXPLORER
> OPEN EDITORS
  05 JUSTIFY CONTENT
    index.html
    style.css

index.html > html > body > div.box-wrapper
12         <h2>Box 1</h2>
13         <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto verit
14     </div>
15     <div class="box box-2">
16         <h2>Box 2</h2>
17         <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto verit
18     </div>
19     <div class="box box-3">
20         <h2>Box 3</h2>
21         <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto verit
22     </div>
23     <!-- <div class="box box-4">
24         .....<h2>Box 4</h2>
25         .....<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto verit
26         .....</div>
27         .....<div class="box box-5">
28         .....<h2>Box 5</h2>
29         .....<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto verit
30         .....</div> -->
31     </div>
32 </body>
33 </html>
```

04:06

Ln 30, Col 15 (398 selected) Spaces: 4 UTF-8 CRLF HTML Port: 5500 9:18 PM



### Box 1

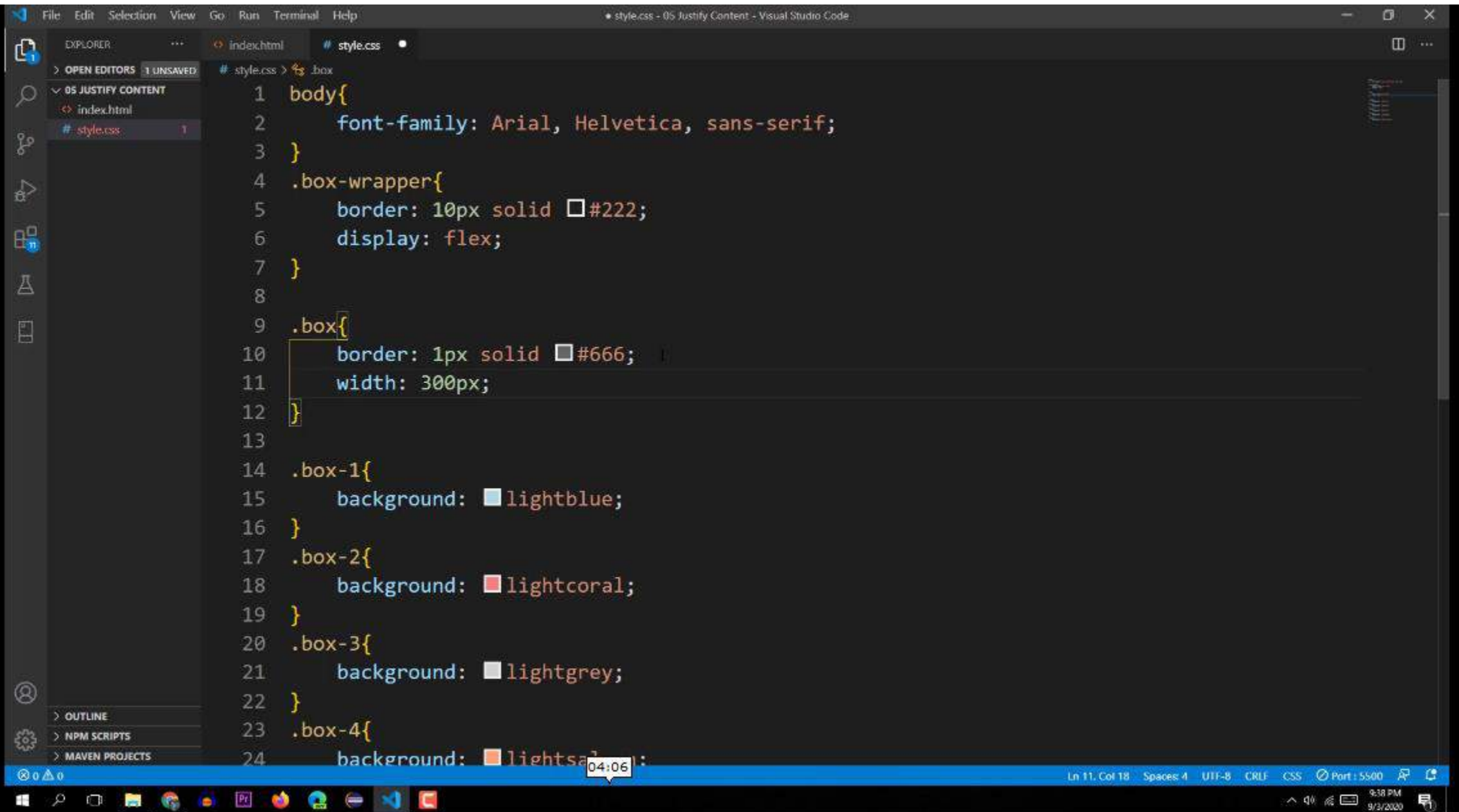
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eaque iusto ventatis odit voluptatum, ipsa eos.

### Box 2

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eaque iusto ventatis odit voluptatum, ipsa eos.

### Box 3

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.



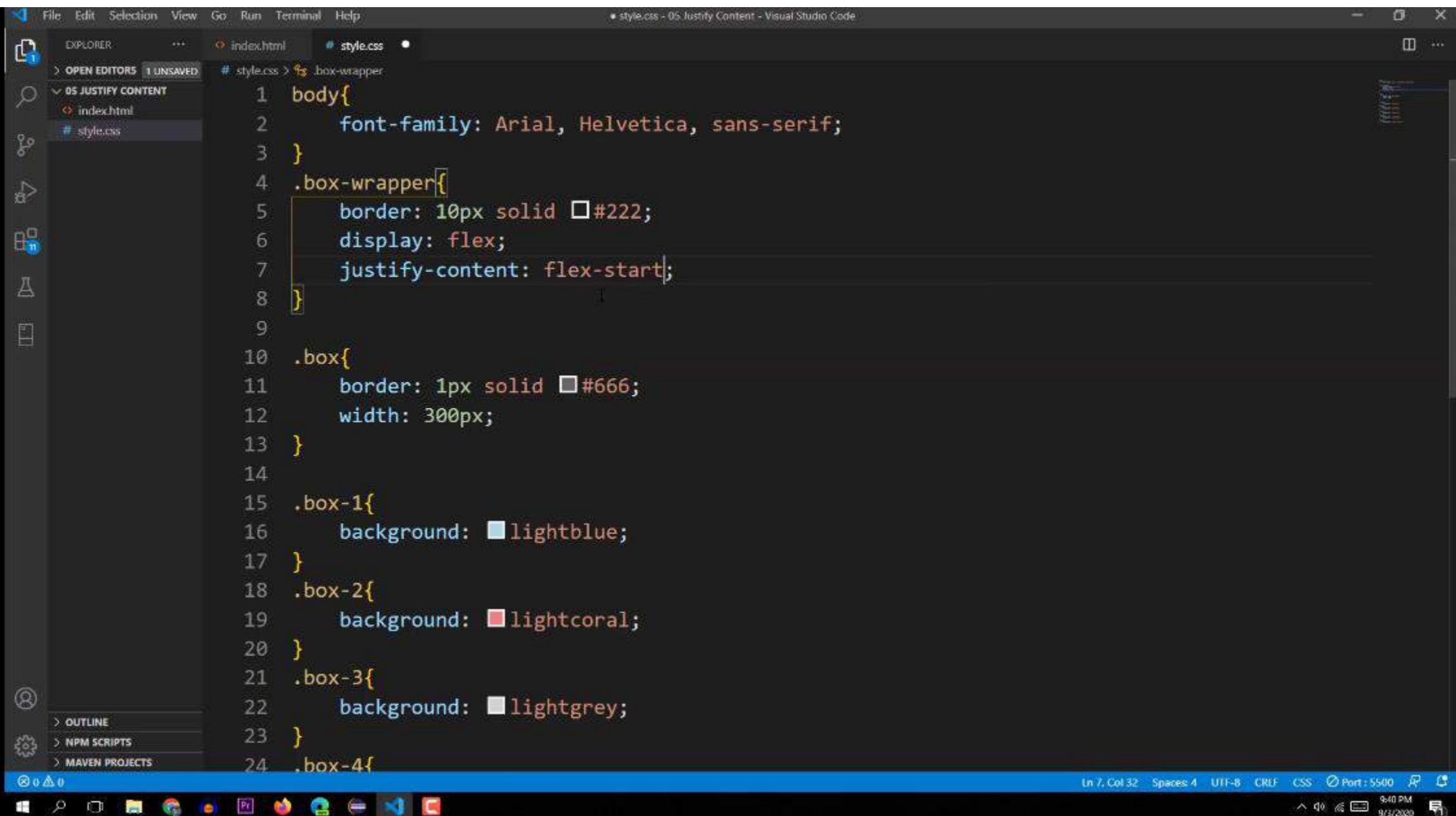
Lorem ipsum dolor sit amet, consectetur  
 adipiscing elit. Eaque iusto veritatis odit  
 voluptatum, ipsa eos.

Lorum ipsum dolor sit amet, consectetur  
adipiscing elit. Etque iusto veritatis odit  
voluptatum, ipsa eos.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.

# Justify Content Property

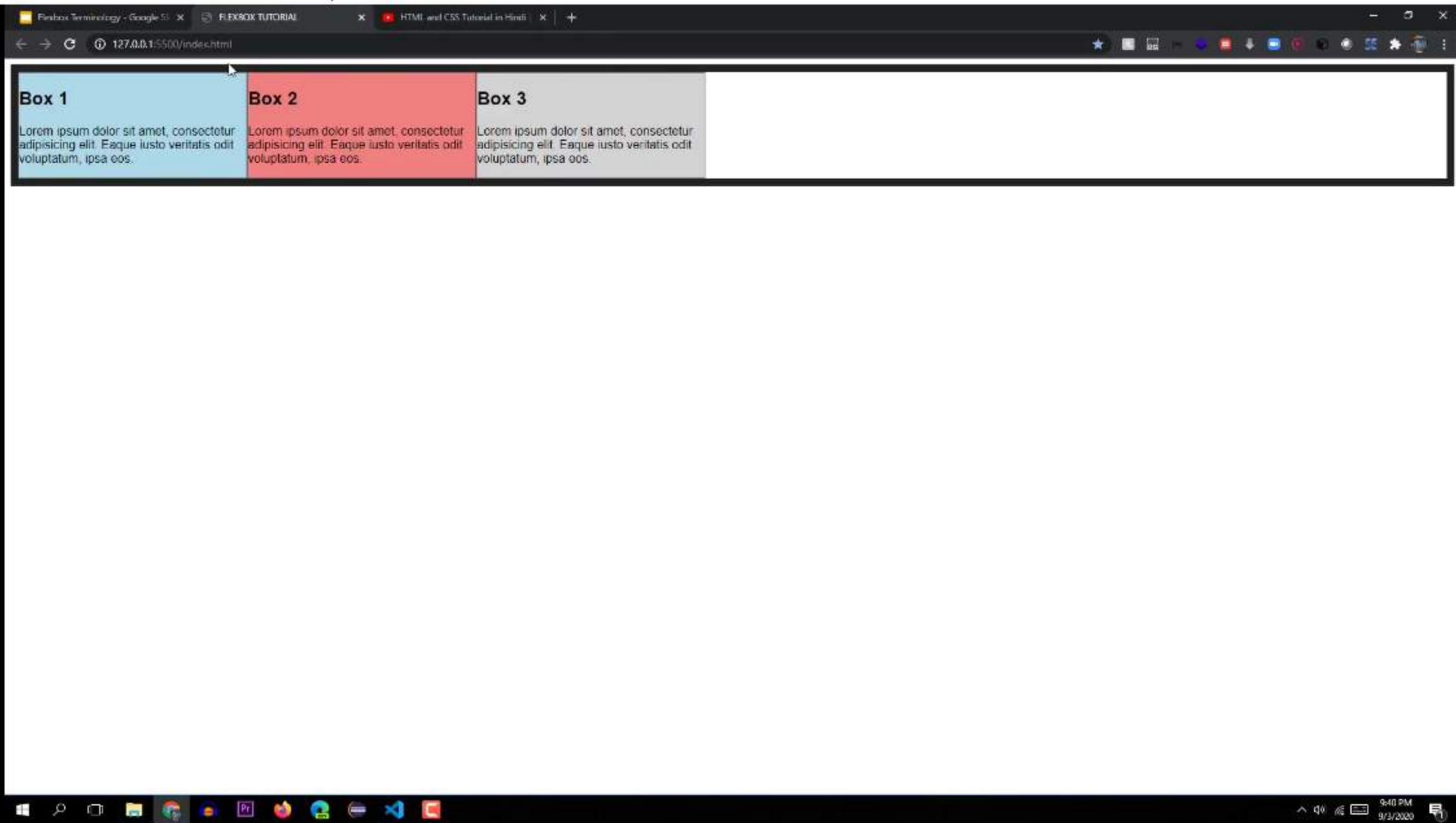
- Flex start
- Flex end
- Flex center
- Space between
- Space round



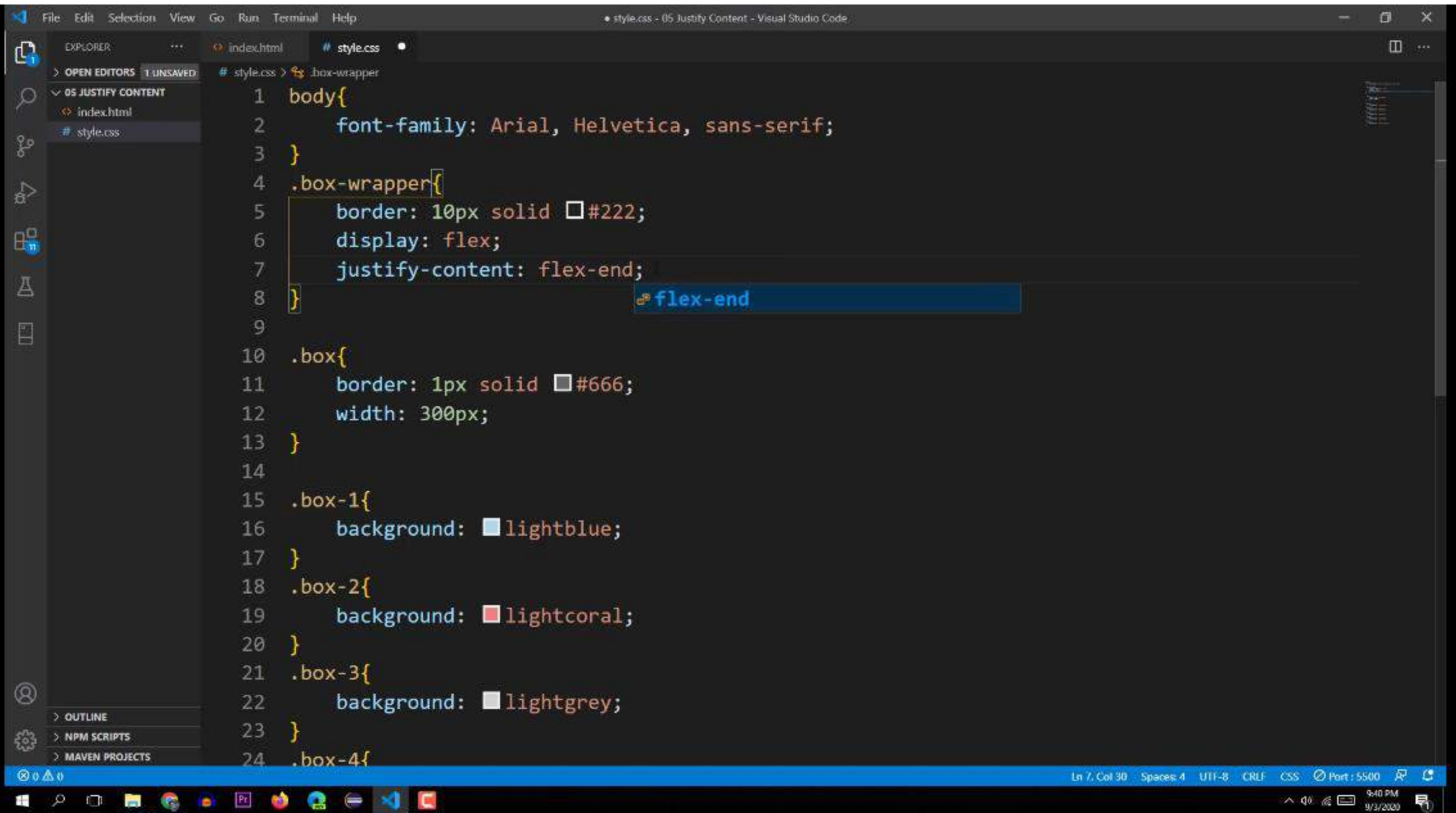
The image shows a Visual Studio Code editor window with a dark theme. The title bar at the top reads "style.css - 05.Justify Content - Visual Studio Code". The Explorer sidebar on the left shows a project named "05 JUSTIFY CONTENT" with files "index.html" and "style.css". The "style.css" file is open in the main editor, showing the following CSS code:

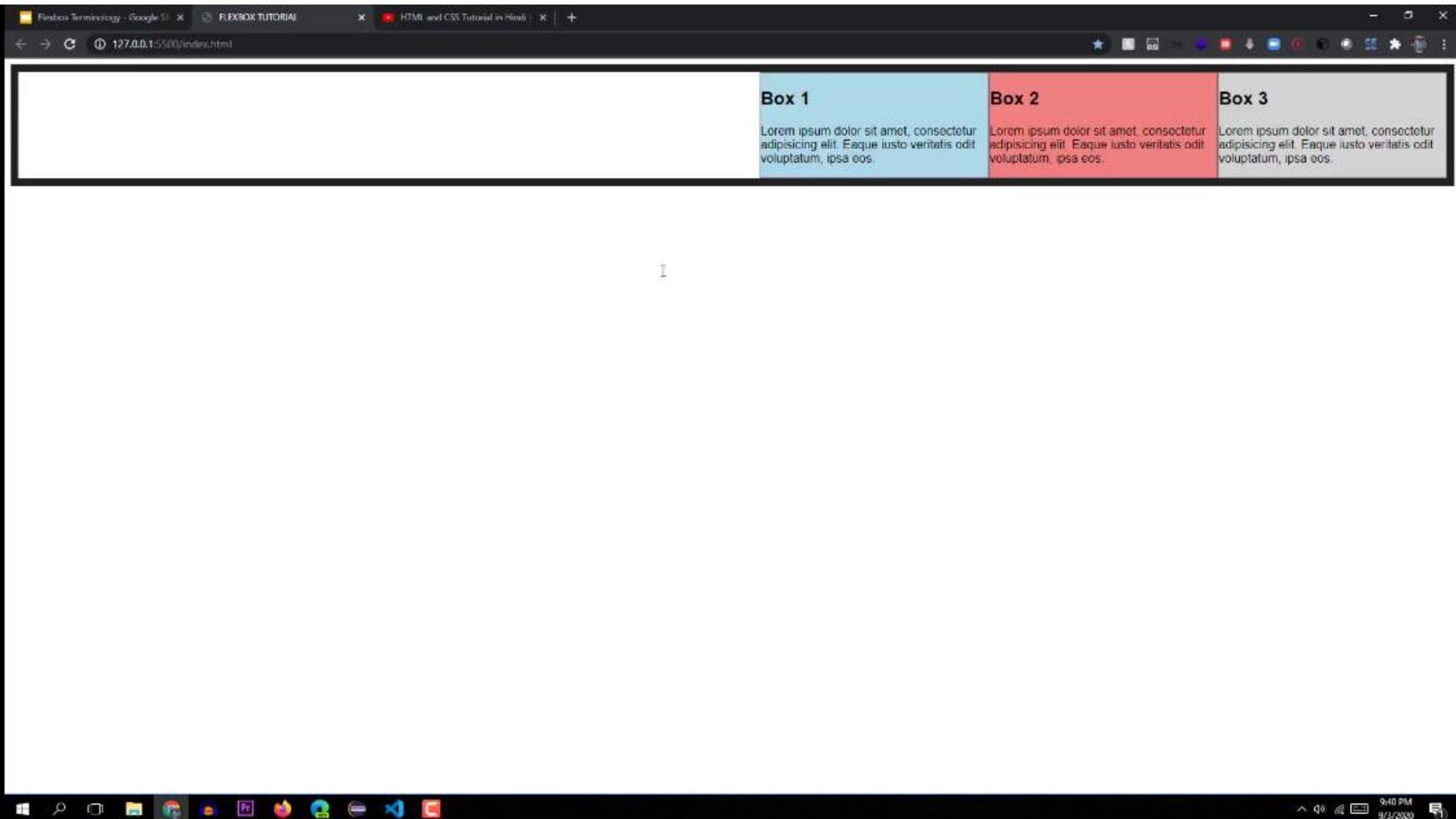
```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     justify-content: flex-start;
8 }
9
10 .box{
11     border: 1px solid #666;
12     width: 300px;
13 }
14
15 .box-1{
16     background: lightblue;
17 }
18 .box-2{
19     background: lightcoral;
20 }
21 .box-3{
22     background: lightgrey;
23 }
24 .box-4{
```

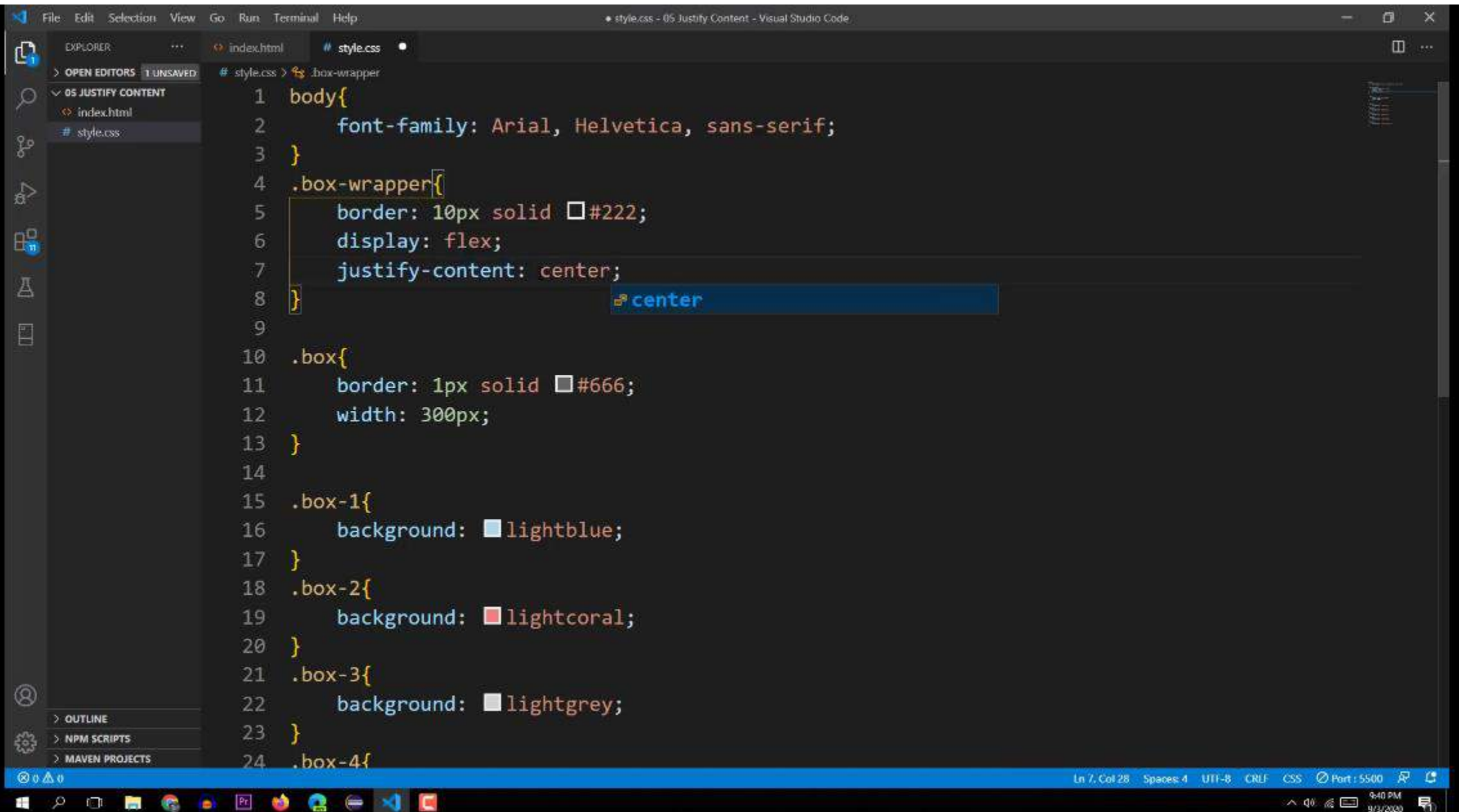
The status bar at the bottom indicates "Ln 7, Col 32", "Spaces: 4", "UTF-8", "CRLF", "CSS", and "Port: 5500". The system tray at the bottom right shows the time as 9:40 PM on 9/3/2020.

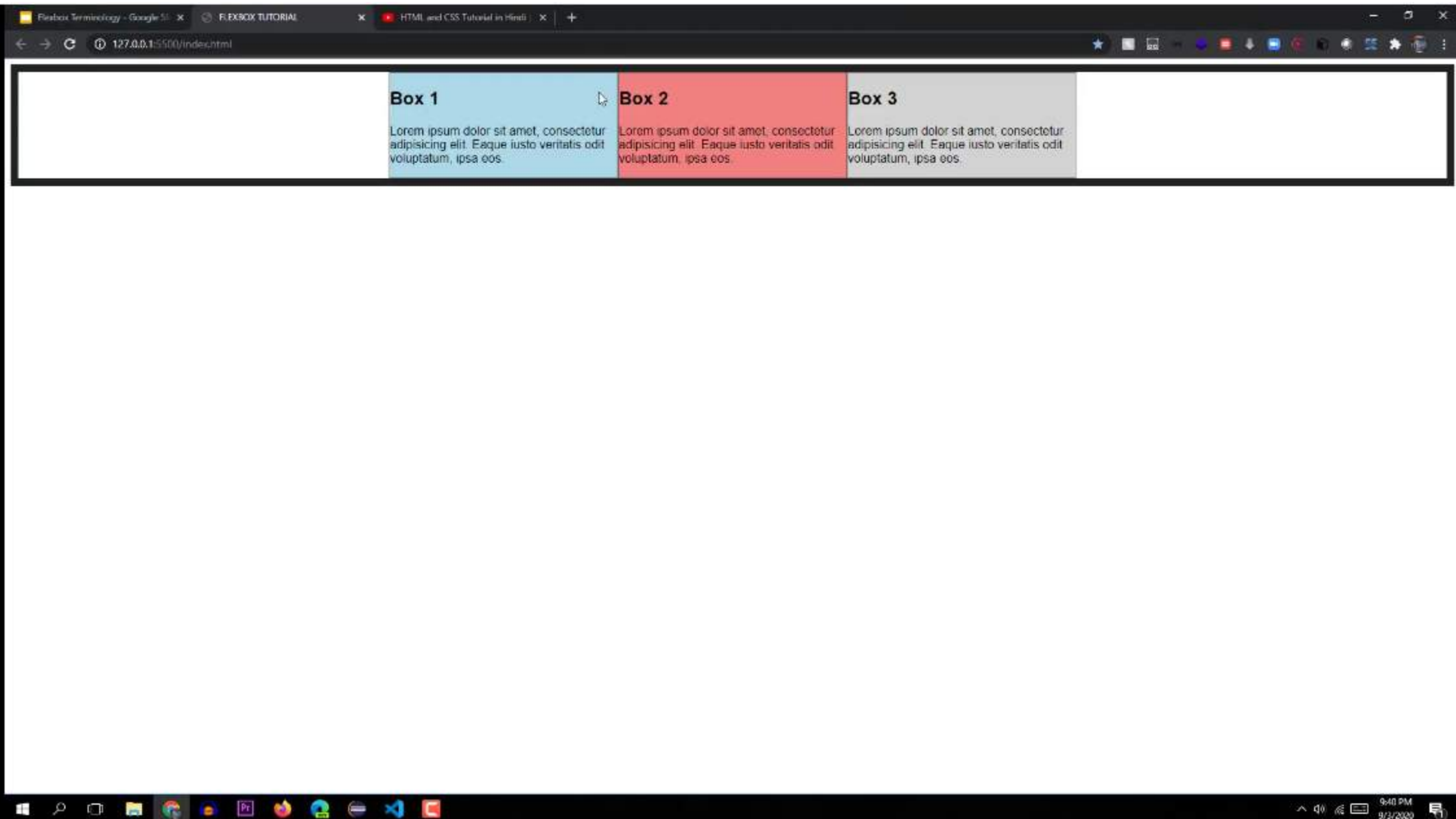












File Edit Selection View Go Run Terminal Help

style.css - 05 Justify Content - Visual Studio Code

EXPLORER

index.html style.css

OPEN EDITORS

05 JUSTIFY CONTENT

index.html

style.css

1 body{

2 font-family: Arial, Helvetica, sans-serif;

3 }

4 .box-wrapper{

5 border: 10px solid #222;

6 display: flex;

7 justify-content: space-between;

8 }

9

10 .box{

11 border: 1px solid #666;

12 width: 300px;

13 }

14

15 .box-1{

16 background: lightblue;

17 }

18 .box-2{

19 background: lightcoral;

20 }

21 .box-3{

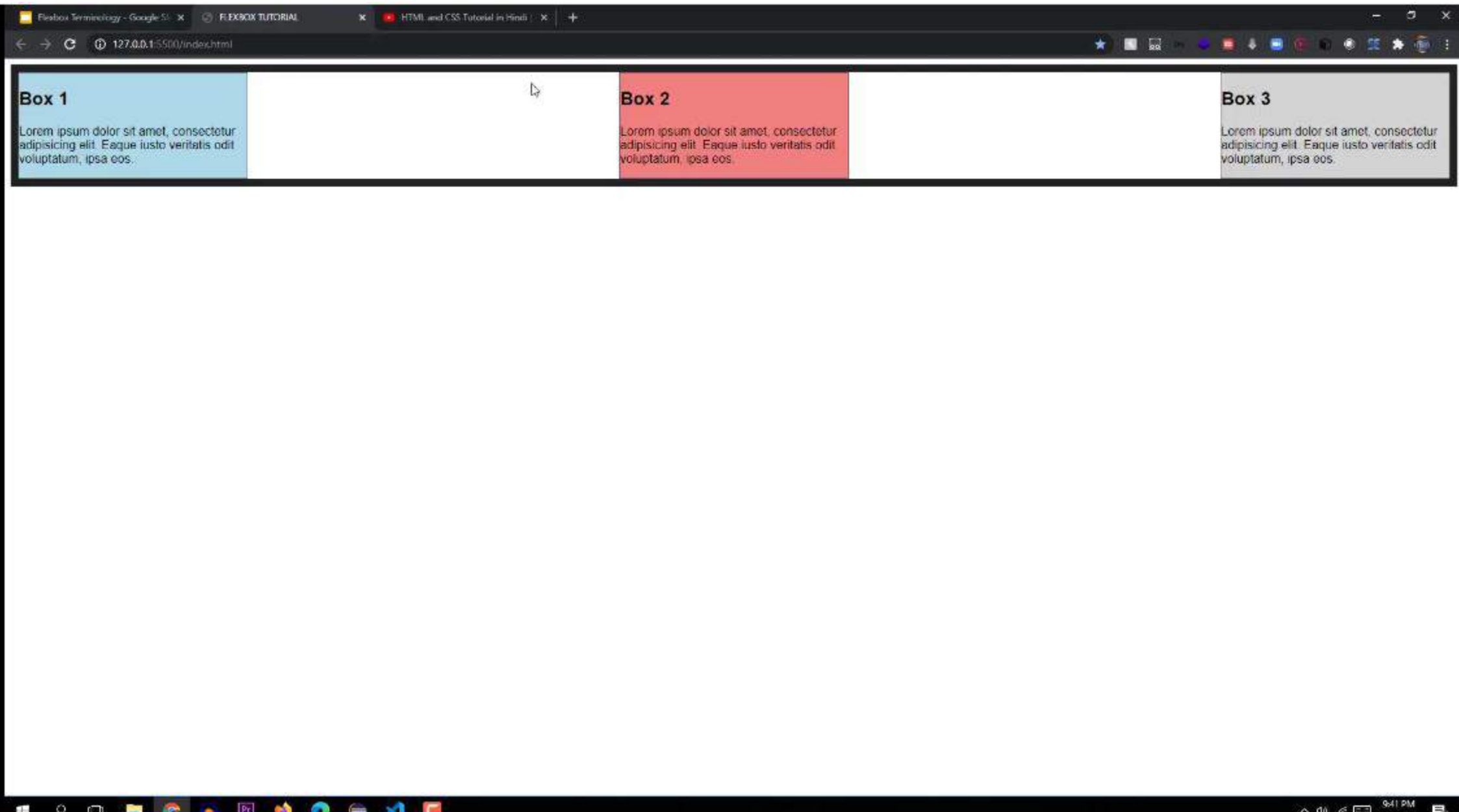
22 background: lightgrey;

23 }

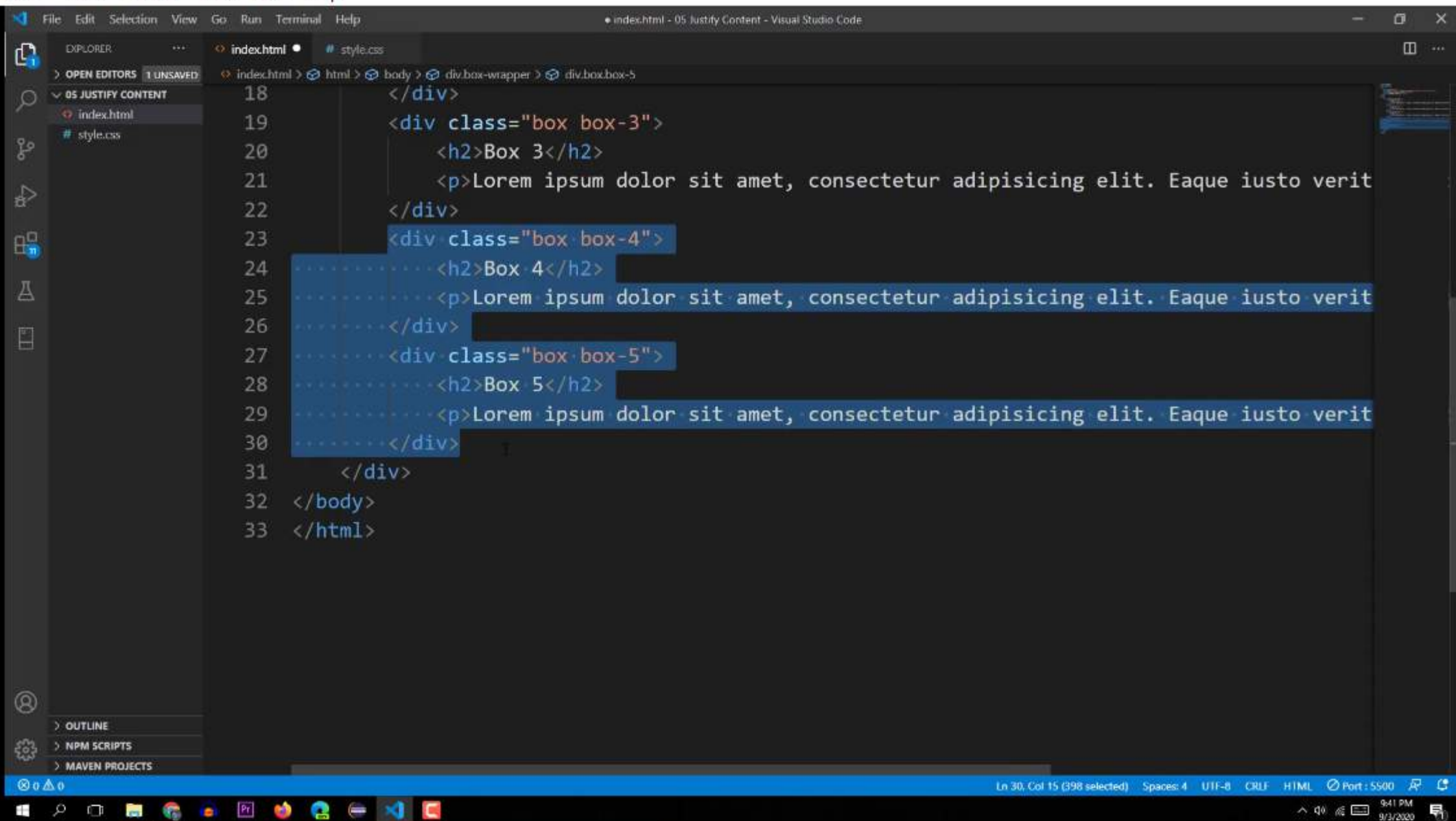
24 .box-4{

Ln 7, Col 35 Spaces: 4 UTF-8 CRLF CSS Port: 5500

9:41 PM 9/3/2020

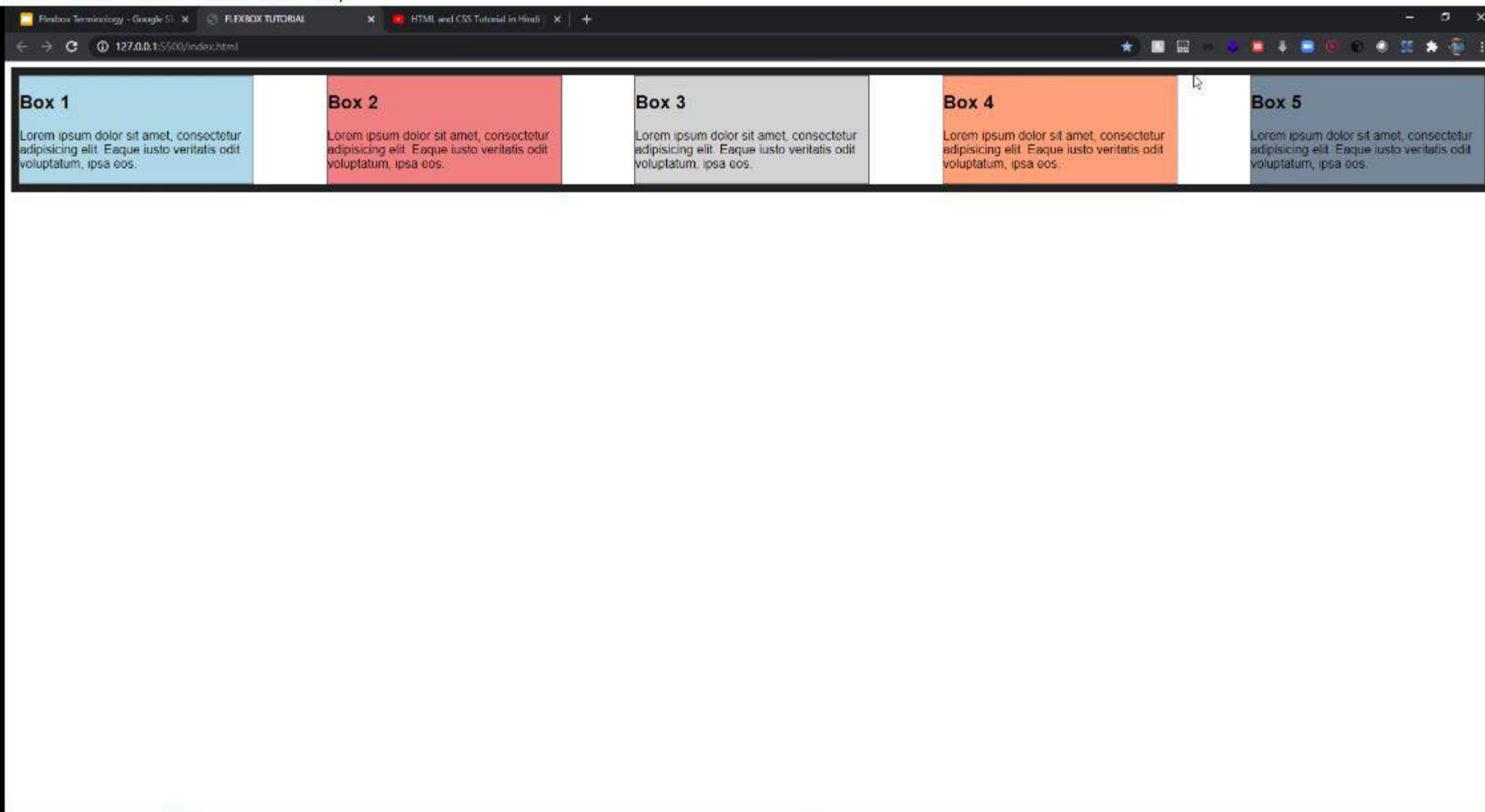


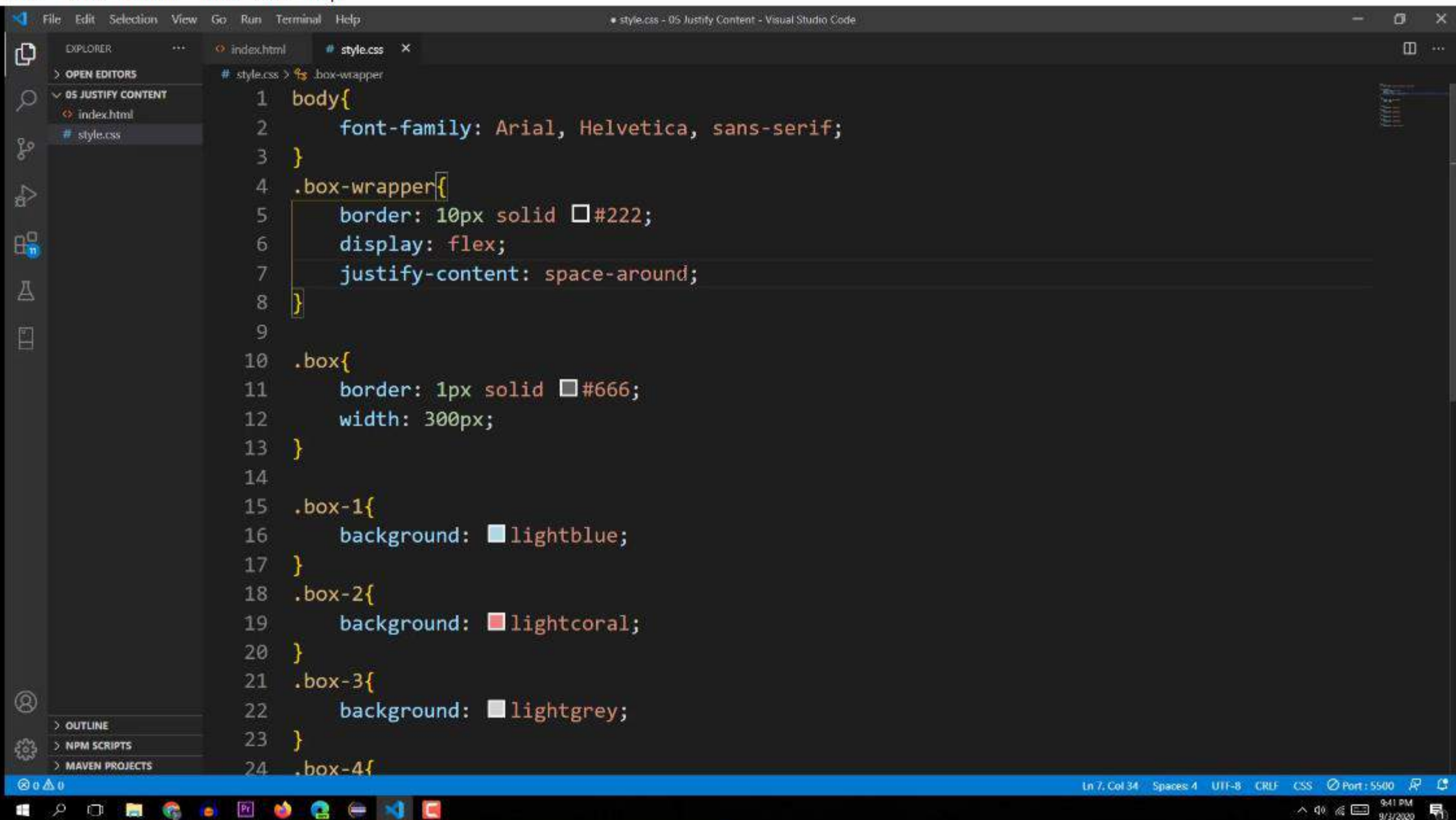




```
18     </div>
19     <div class="box box-3">
20         <h2>Box 3</h2>
21         <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto verit
22     </div>
23     <div class="box box-4">
24         .....<h2>Box 4</h2>
25         .....<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto verit
26     .....</div>
27     .....<div class="box box-5">
28     .....<h2>Box 5</h2>
29     .....<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto verit
30     .....</div>
31 </div>
32 </body>
33 </html>
```

Ln 30, Col 15 (398 selected) Spaces: 4 UTF-8 CRLF HTML Port: 5500

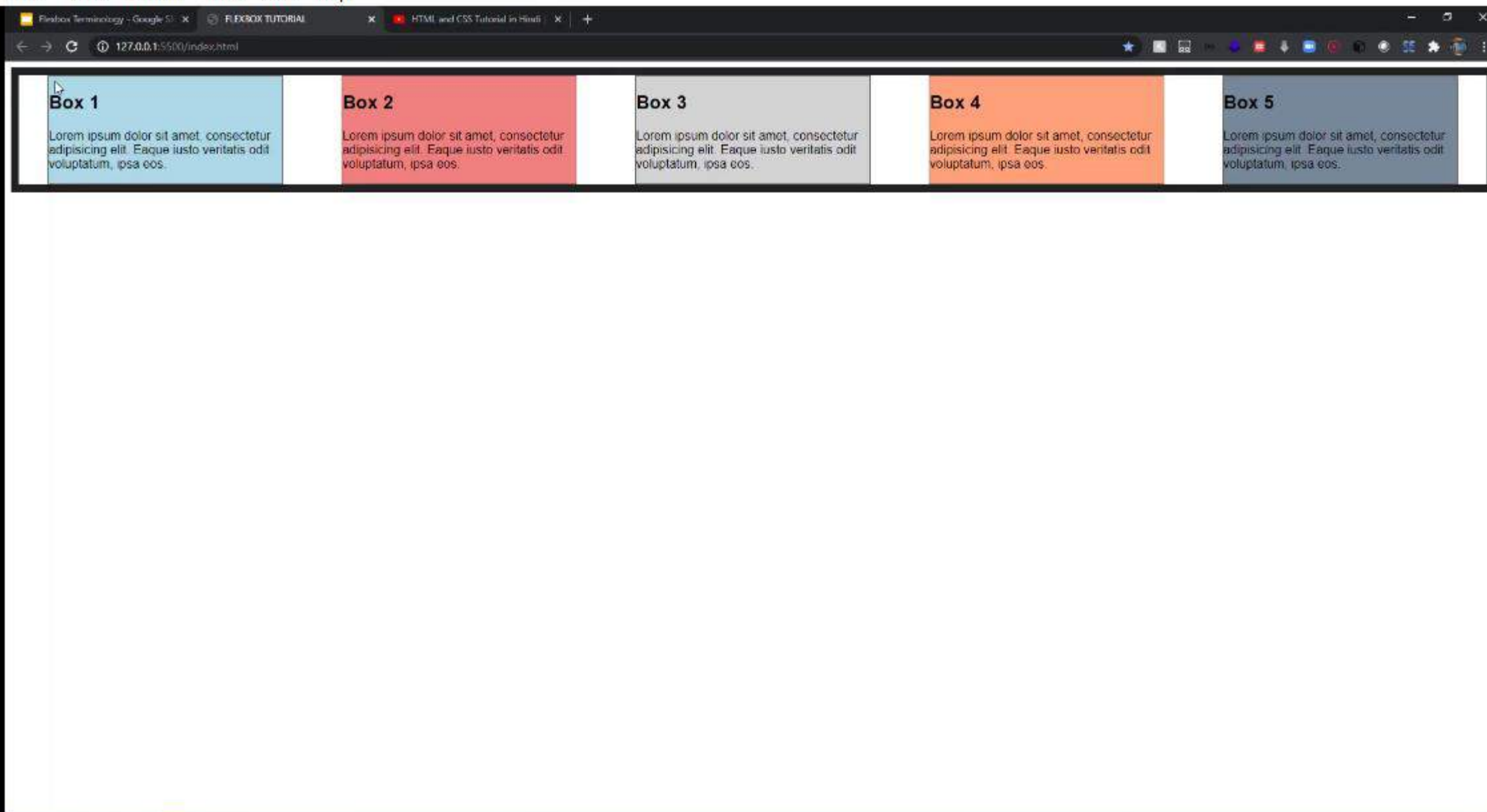




The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays the file structure for a project named '05 JUSTIFY CONTENT', containing 'index.html' and 'style.css'. The main editor area is open to 'style.css', showing the following CSS code:

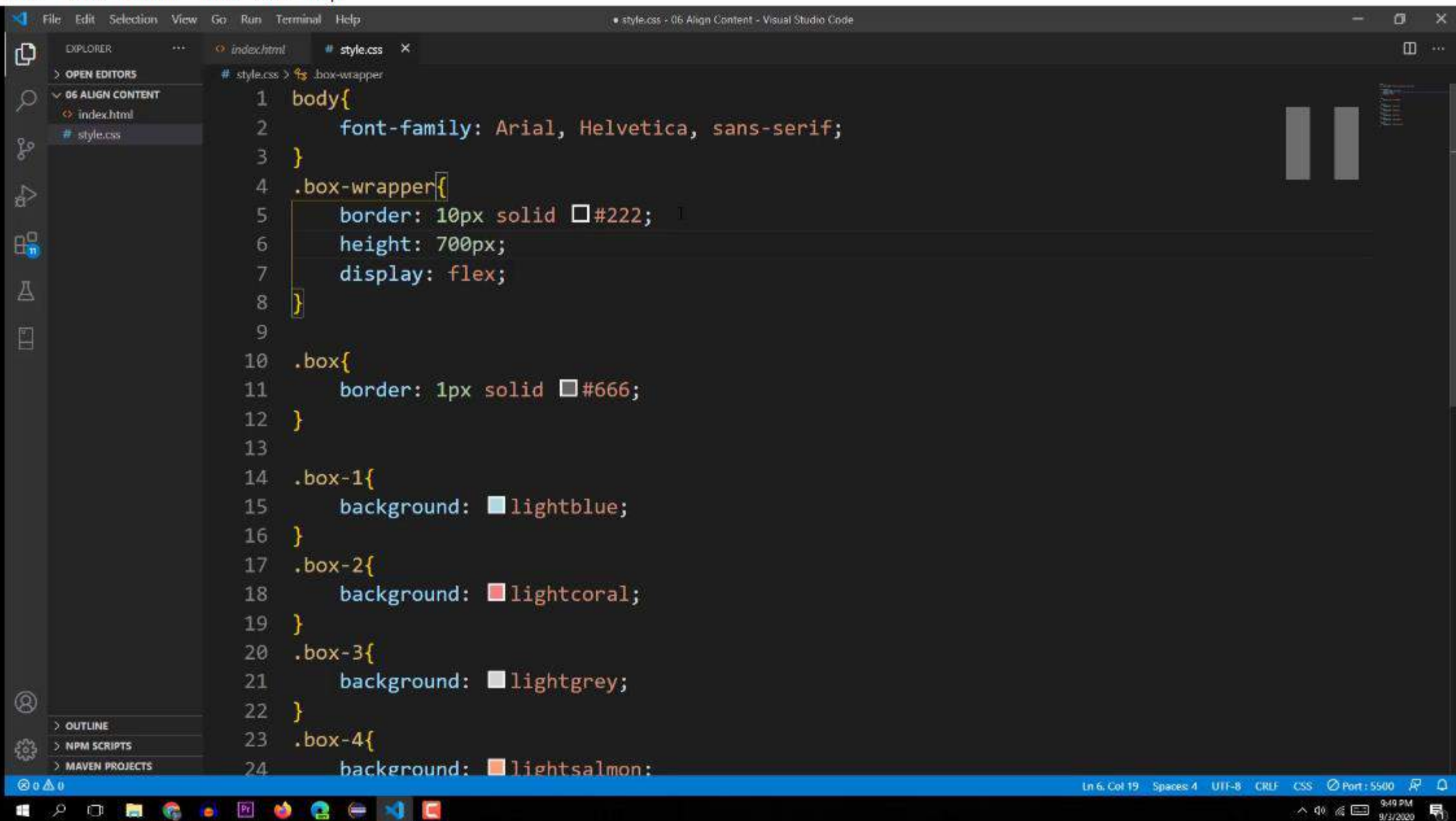
```
# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     justify-content: space-around;
8 }
9
10 .box{
11     border: 1px solid #666;
12     width: 300px;
13 }
14
15 .box-1{
16     background: lightblue;
17 }
18 .box-2{
19     background: lightcoral;
20 }
21 .box-3{
22     background: lightgrey;
23 }
24 .box-4{
```

The status bar at the bottom indicates the current position is 'Ln 7, Col 34' with 'Spaces: 4', 'UTF-8' encoding, 'CRLF' line endings, and 'CSS' language mode. It also shows a port number 'Port: 5500'.



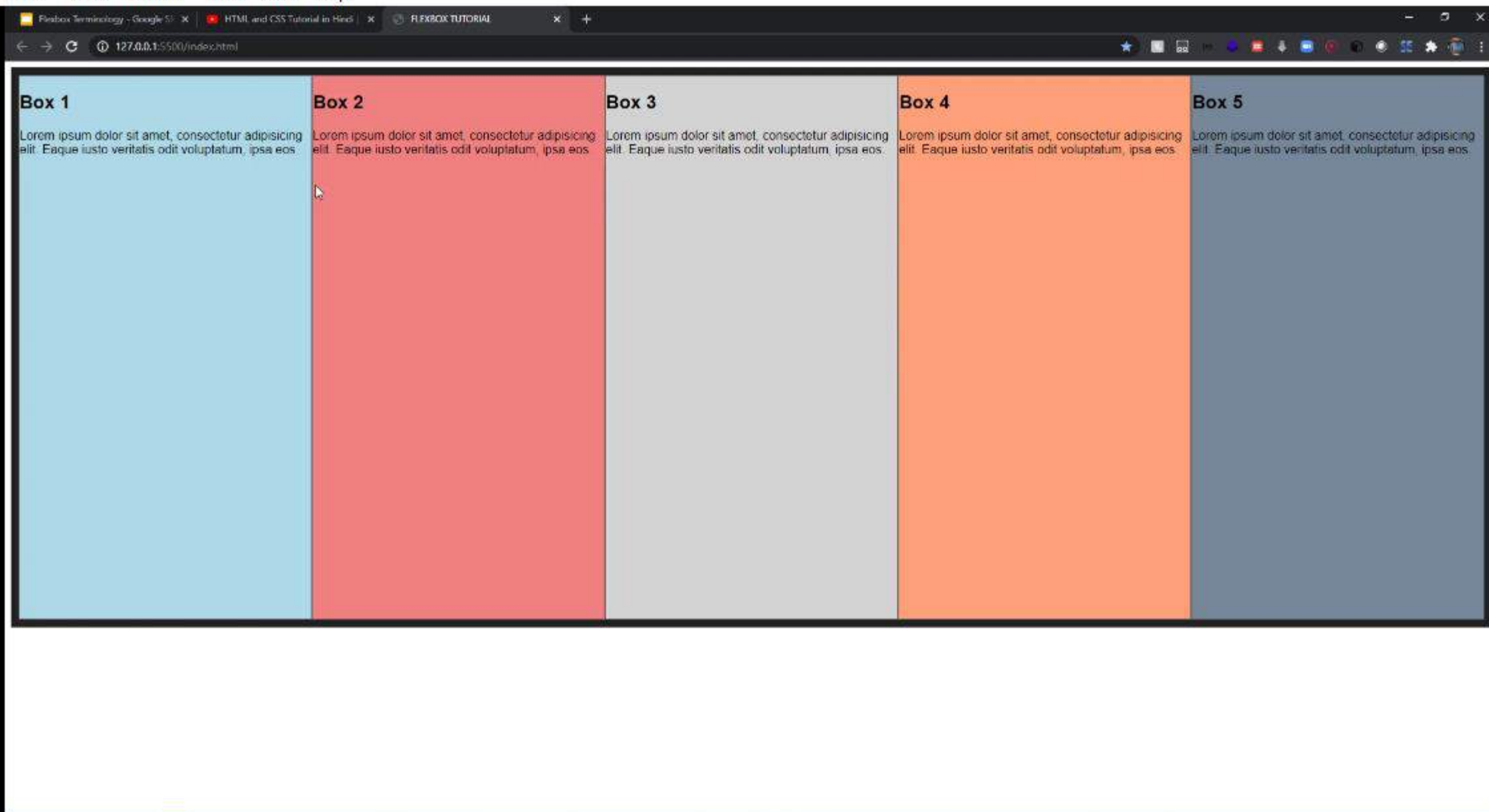
# Align Item

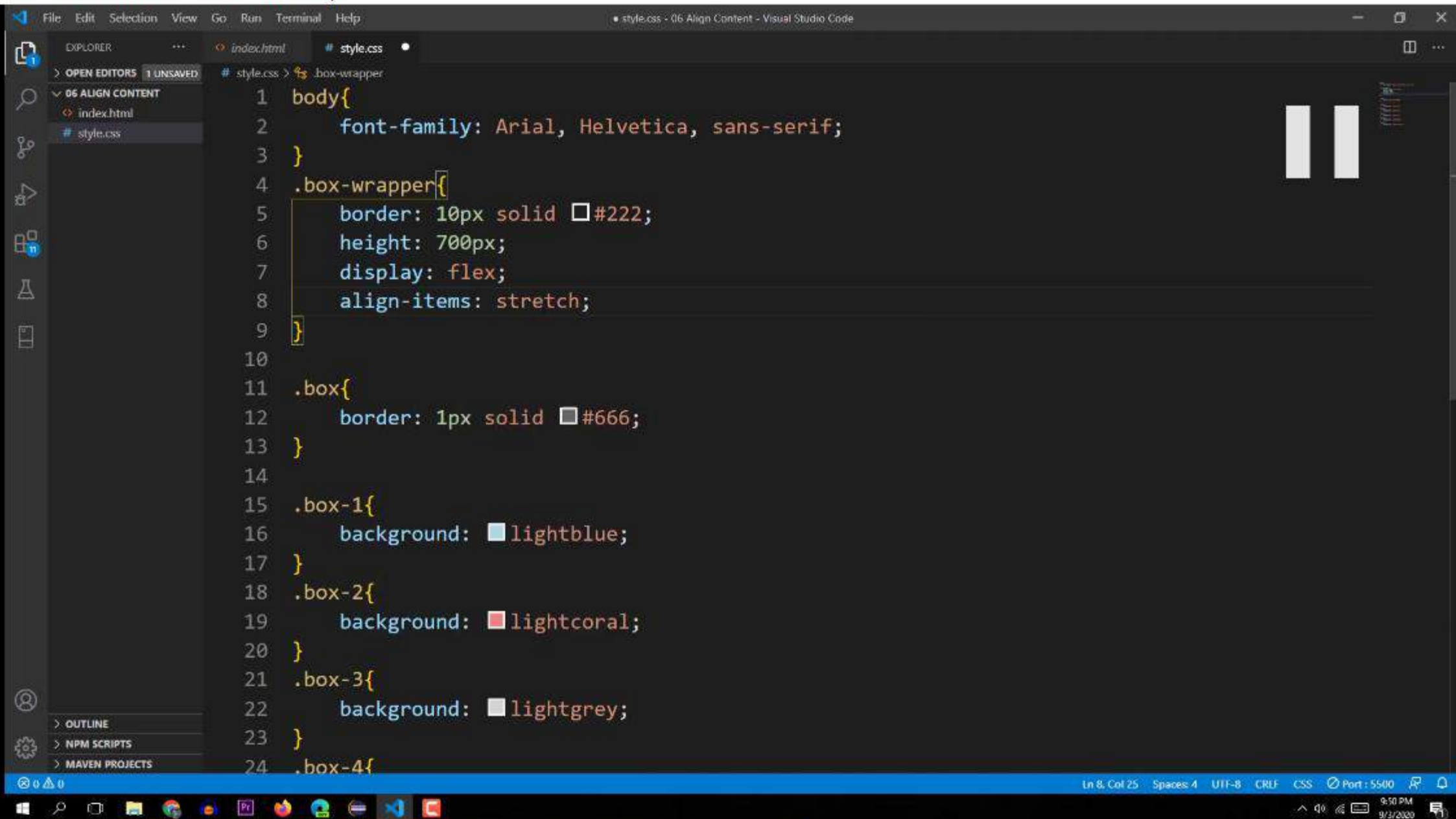
- Justify content in row axis
- It will be in in cross axis
- By default its in stretch mode



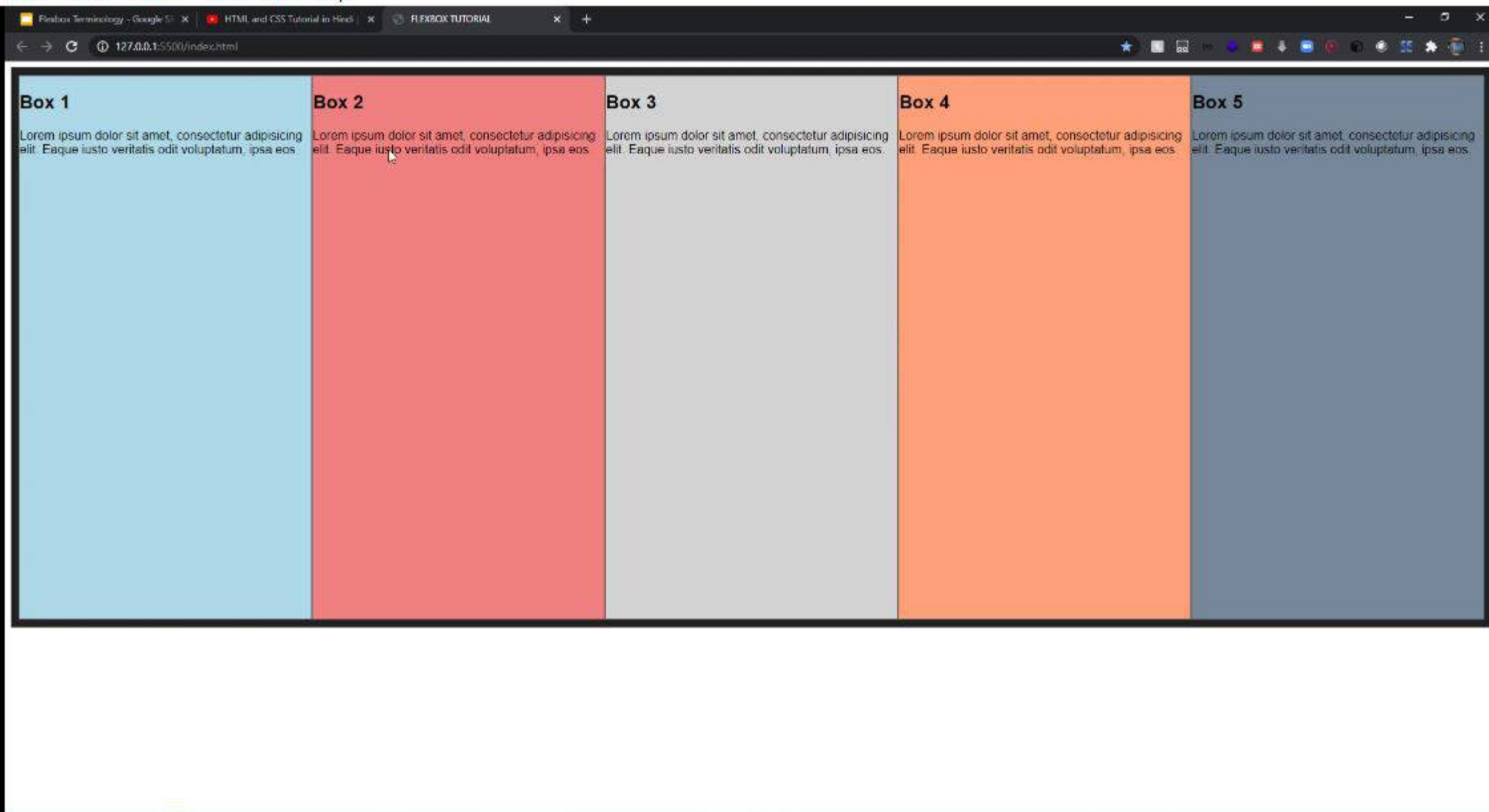
```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     height: 700px;
7     display: flex;
8 }
9
10 .box{
11     border: 1px solid #666;
12 }
13
14 .box-1{
15     background: lightblue;
16 }
17 .box-2{
18     background: lightcoral;
19 }
20 .box-3{
21     background: lightgrey;
22 }
23 .box-4{
24     background: lightsalmon;
```

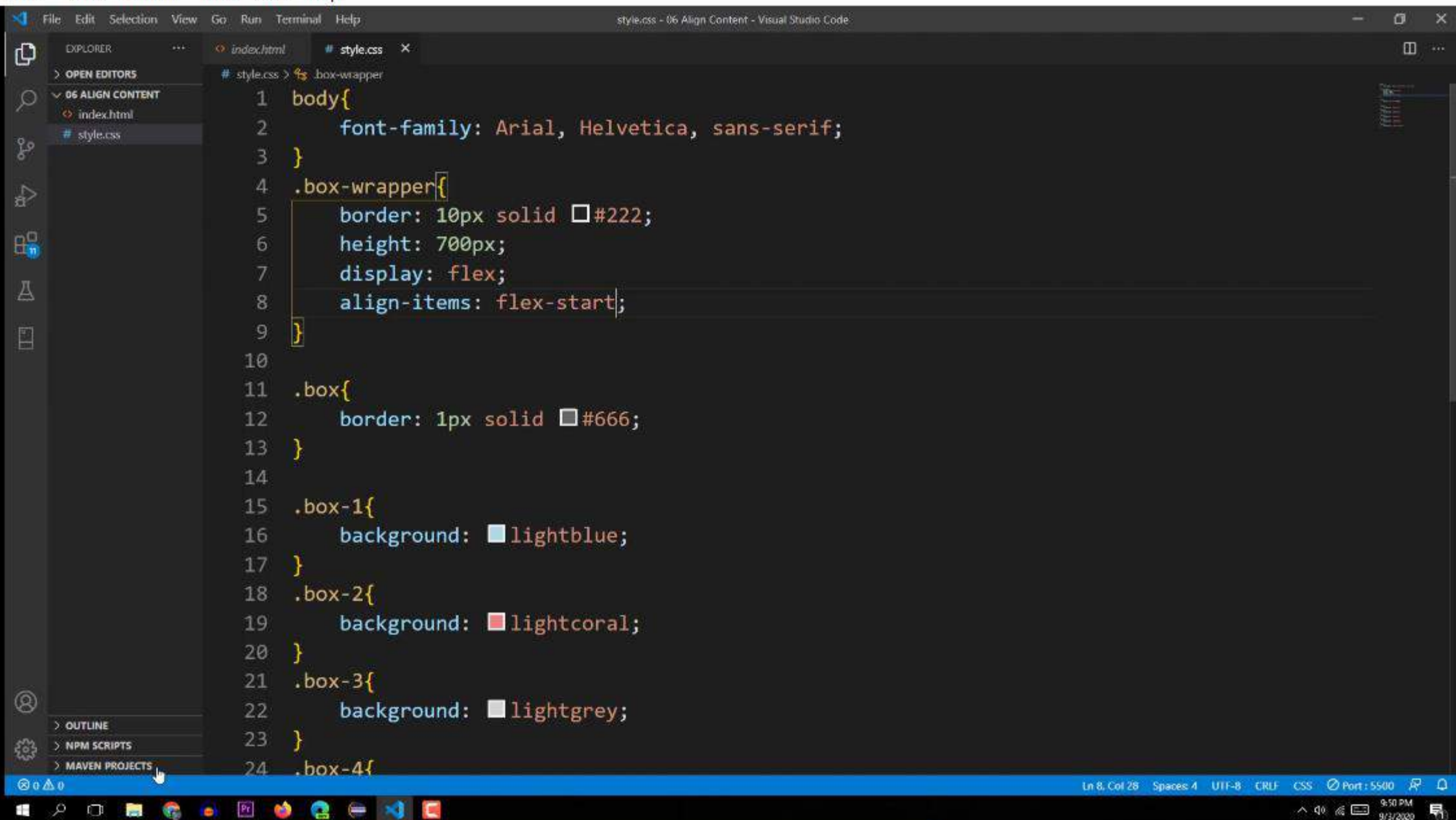




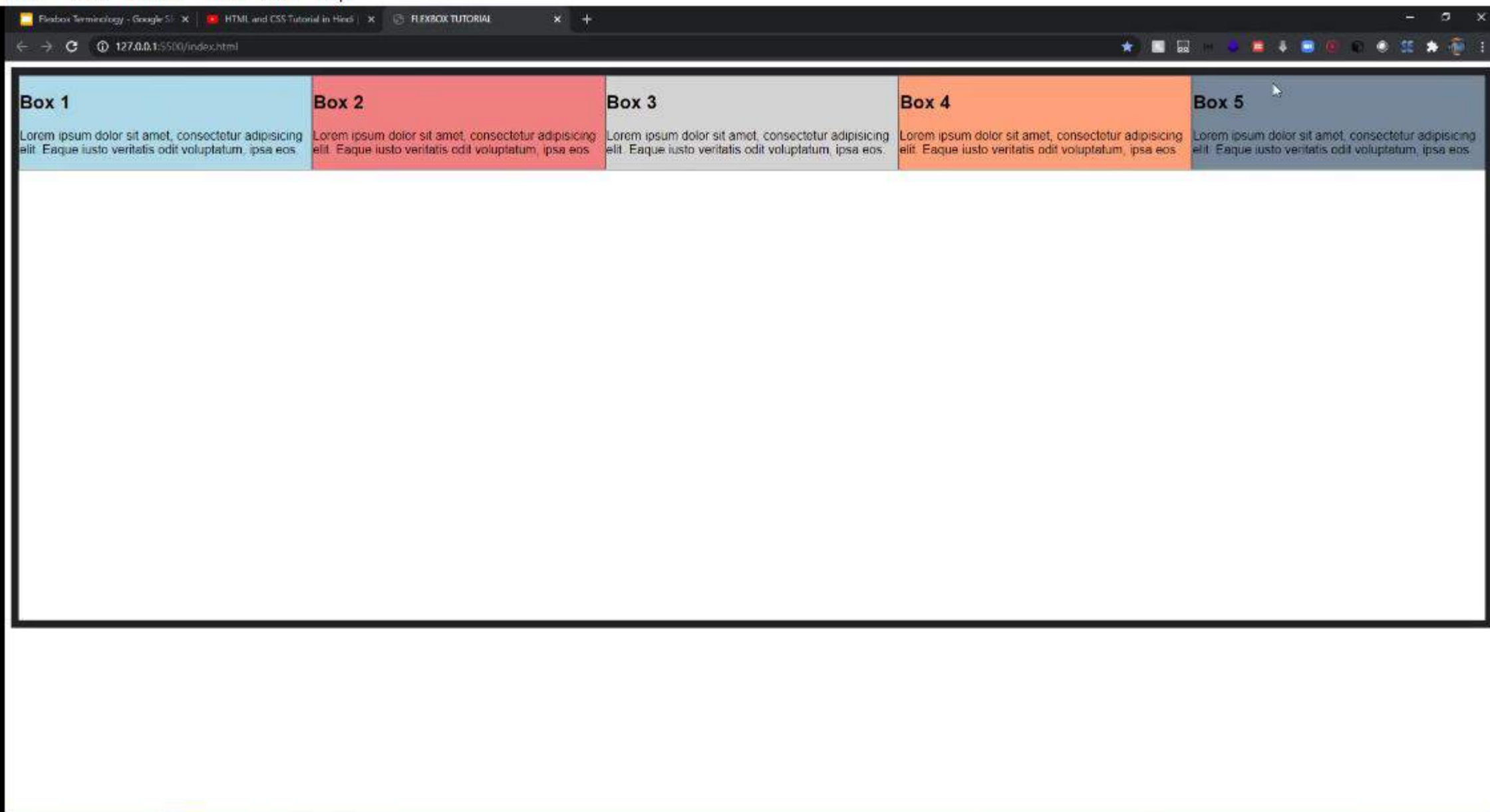


```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     height: 700px;
7     display: flex;
8     align-items: stretch;
9 }
10
11 .box{
12     border: 1px solid #666;
13 }
14
15 .box-1{
16     background: lightblue;
17 }
18 .box-2{
19     background: lightcoral;
20 }
21 .box-3{
22     background: lightgrey;
23 }
24 .box-4{
```

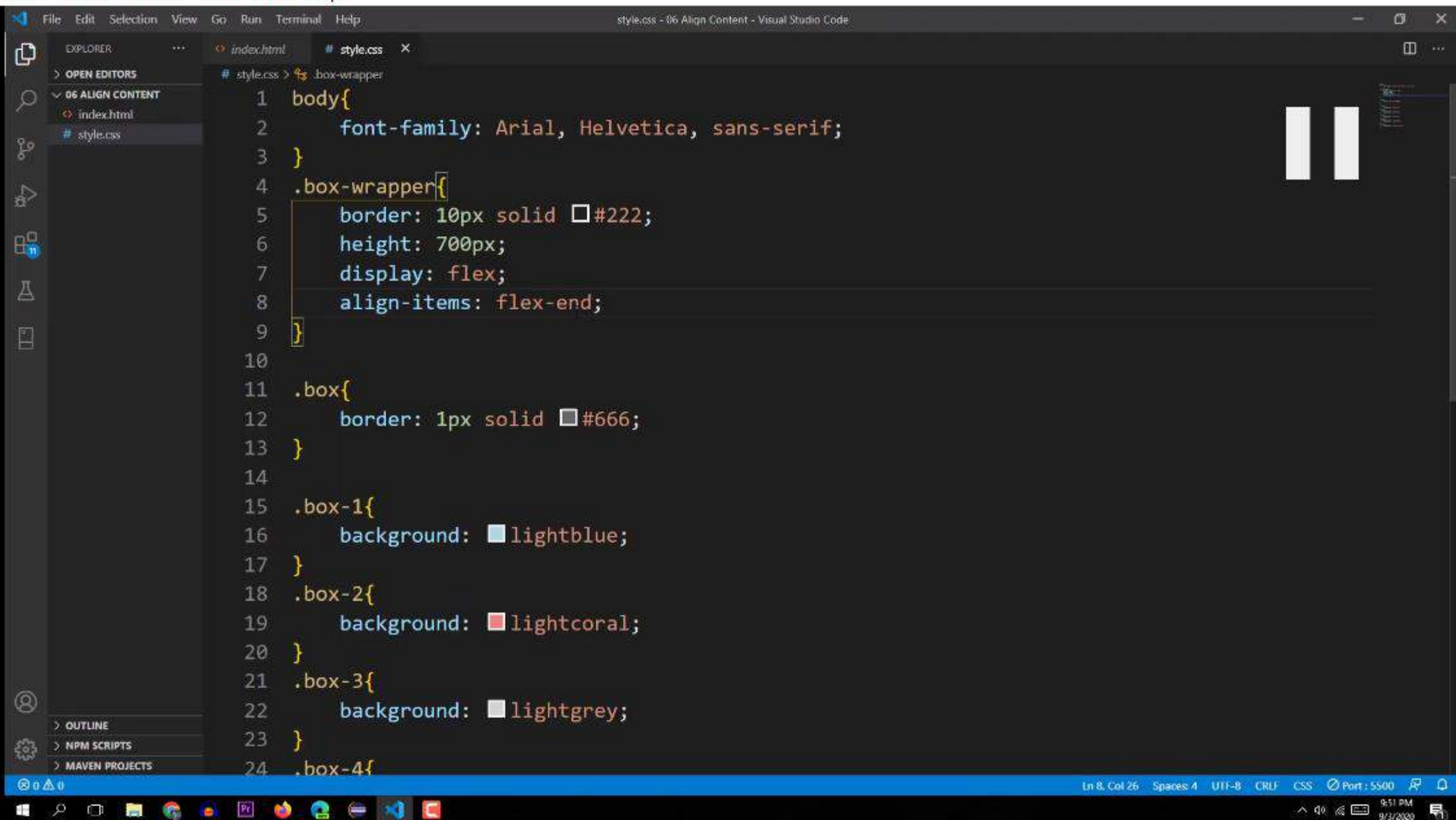




```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     height: 700px;
7     display: flex;
8     align-items: flex-start;
9 }
10
11 .box{
12     border: 1px solid #666;
13 }
14
15 .box-1{
16     background: lightblue;
17 }
18 .box-2{
19     background: lightcoral;
20 }
21 .box-3{
22     background: lightgrey;
23 }
24 .box-4{
```

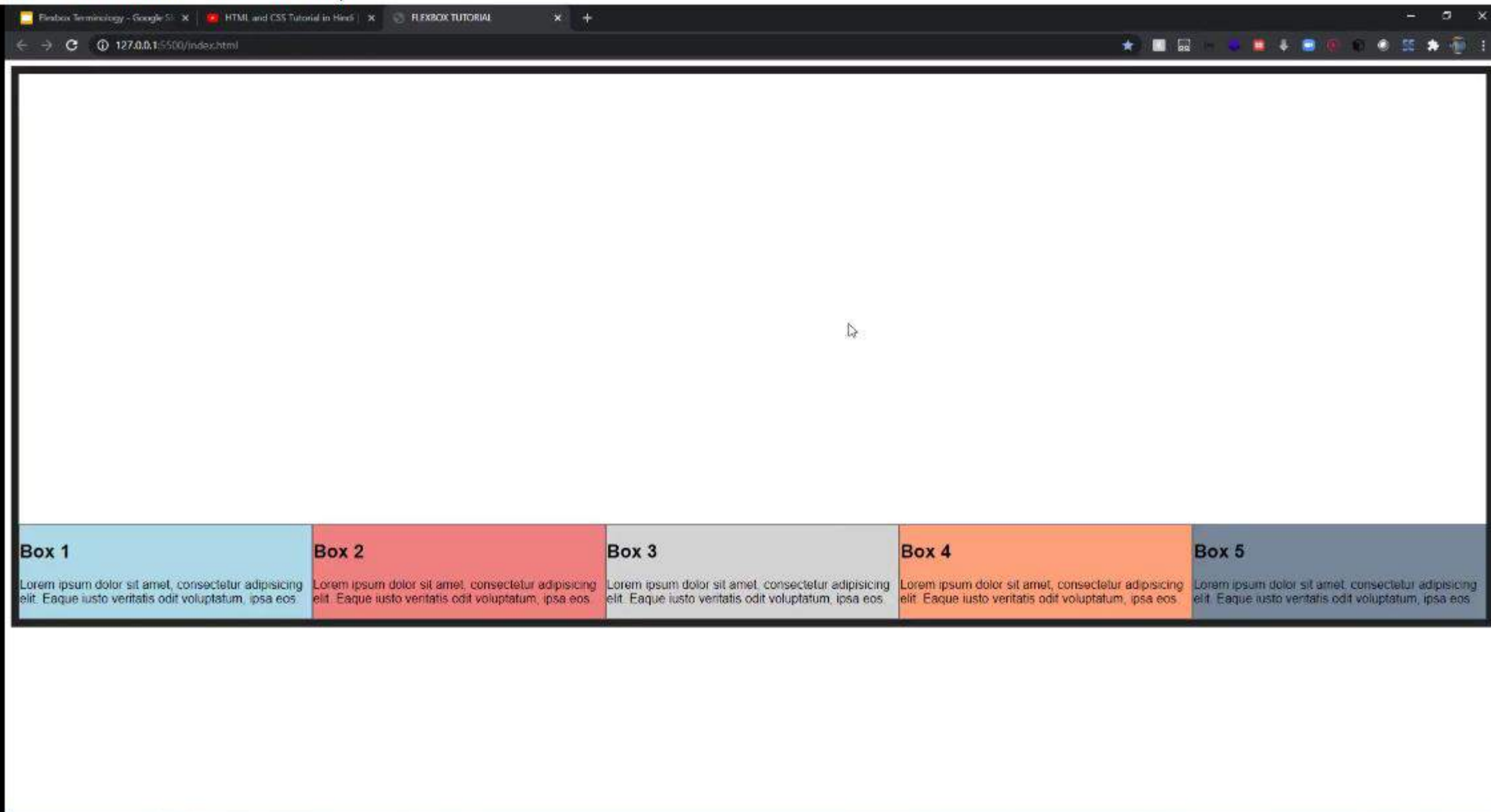


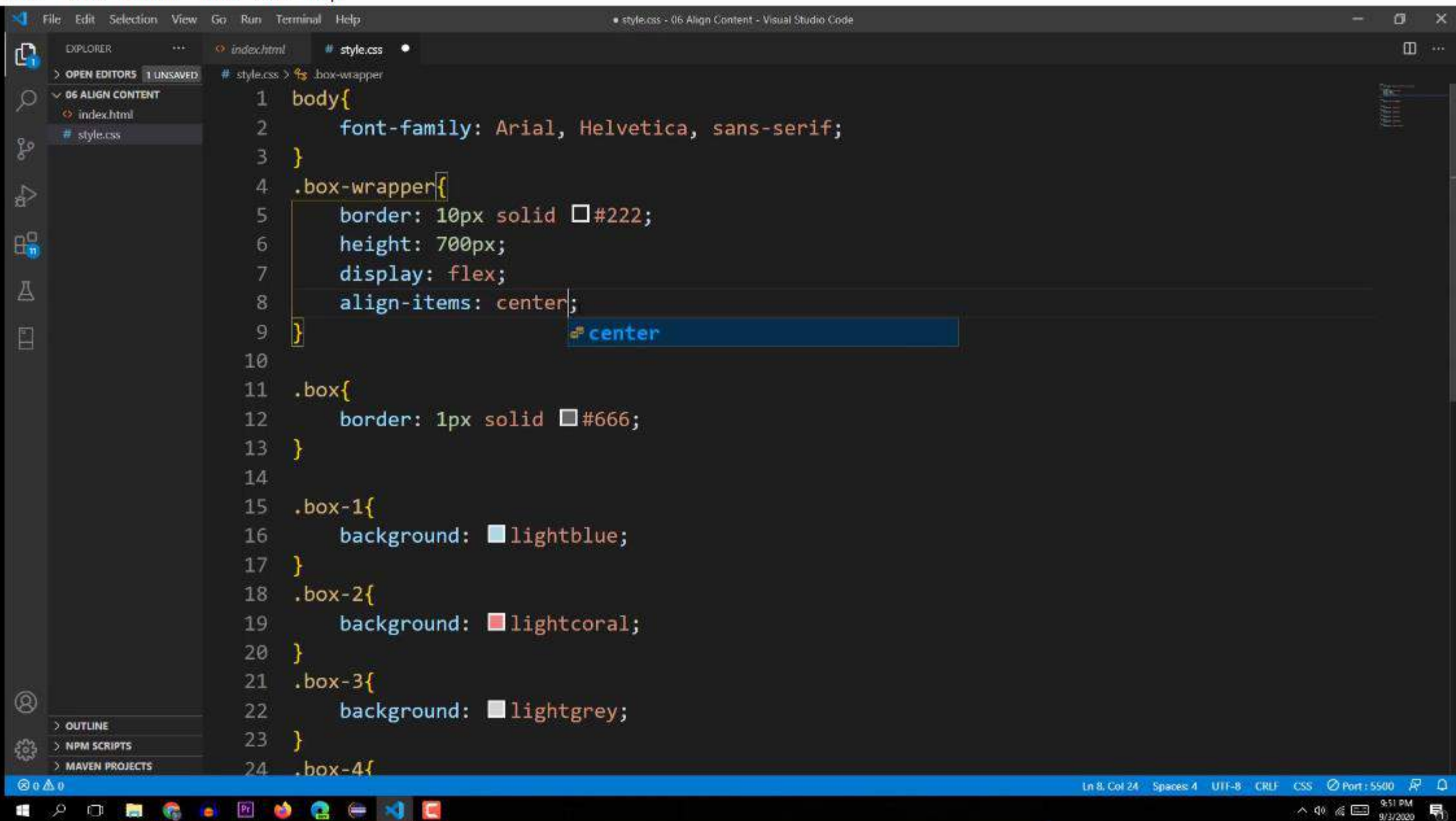




```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     height: 700px;
7     display: flex;
8     align-items: flex-end;
9 }
10
11 .box{
12     border: 1px solid #666;
13 }
14
15 .box-1{
16     background: lightblue;
17 }
18 .box-2{
19     background: lightcoral;
20 }
21 .box-3{
22     background: lightgrey;
23 }
24 .box-4{
```







```
1 body{
2   font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5   border: 10px solid #222;
6   height: 700px;
7   display: flex;
8   align-items: center;
9 }
10
11 .box{
12   border: 1px solid #666;
13 }
14
15 .box-1{
16   background: lightblue;
17 }
18 .box-2{
19   background: lightcoral;
20 }
21 .box-3{
22   background: lightgrey;
23 }
24 .box-4{
```

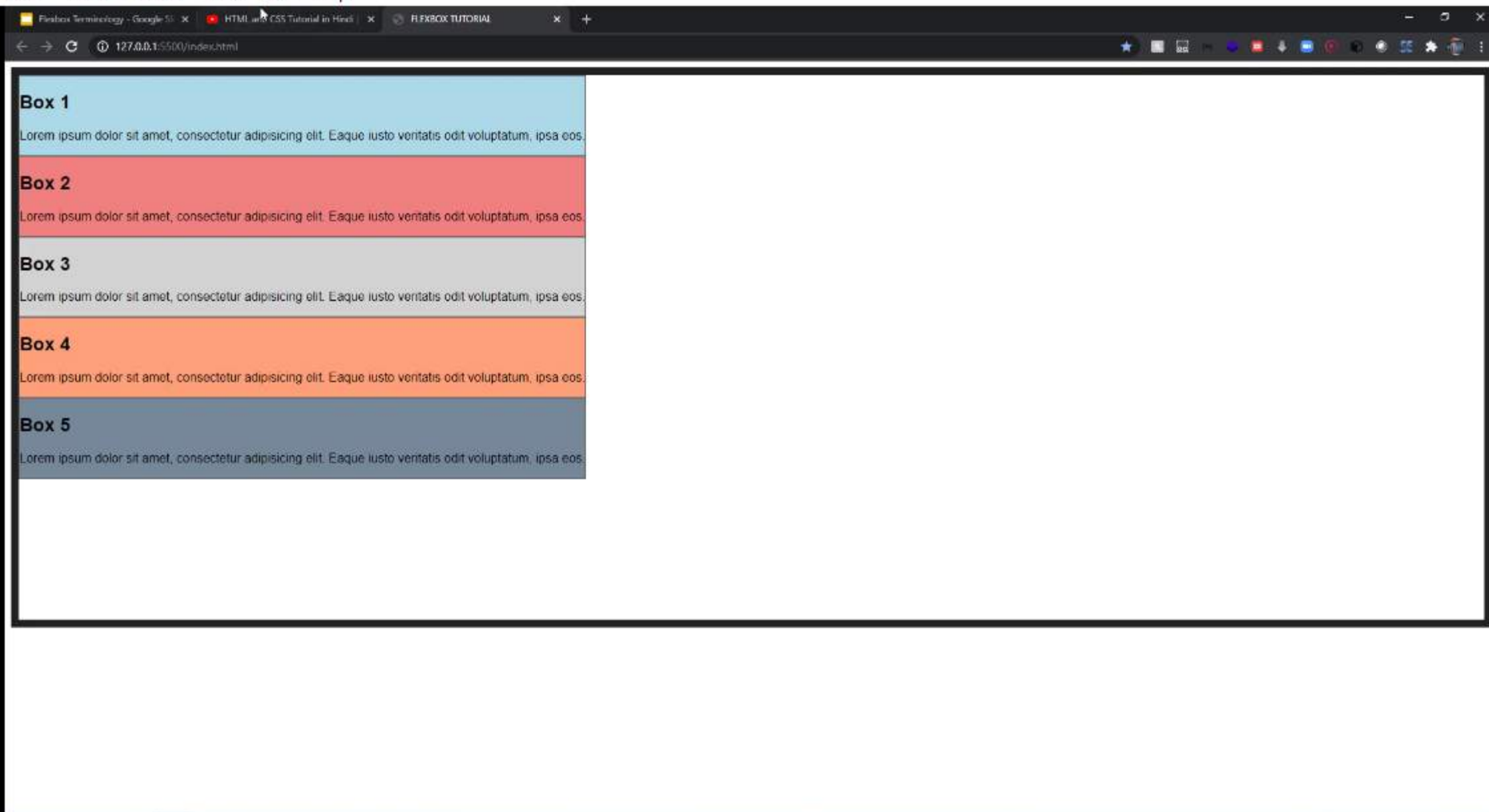
Flexbox Terminology - Google Slides x HTML and CSS Tutorial in Hindi x FLEXBOX TUTORIAL x +

127.0.0.1:5500/index.html

Box 1	Box 2	Box 3	Box 4	Box 5
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.	Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.	Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.	Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.	Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     height: 700px;
7     display: flex;
8     /* align-items: center; */
9     flex-direction: column;
10    align-items: flex-start;
11 }
12
13 .box{
14     border: 1px solid #666;
15 }
16
17 .box-1{
18     background: lightblue;
19 }
20 .box-2{
21     background: lightcoral;
22 }
23 .box-3{
24     background: lightgrey;
```

Ln 10, Col 28 Spaces: 4 UTF-8 CRLF CSS Port: 5500





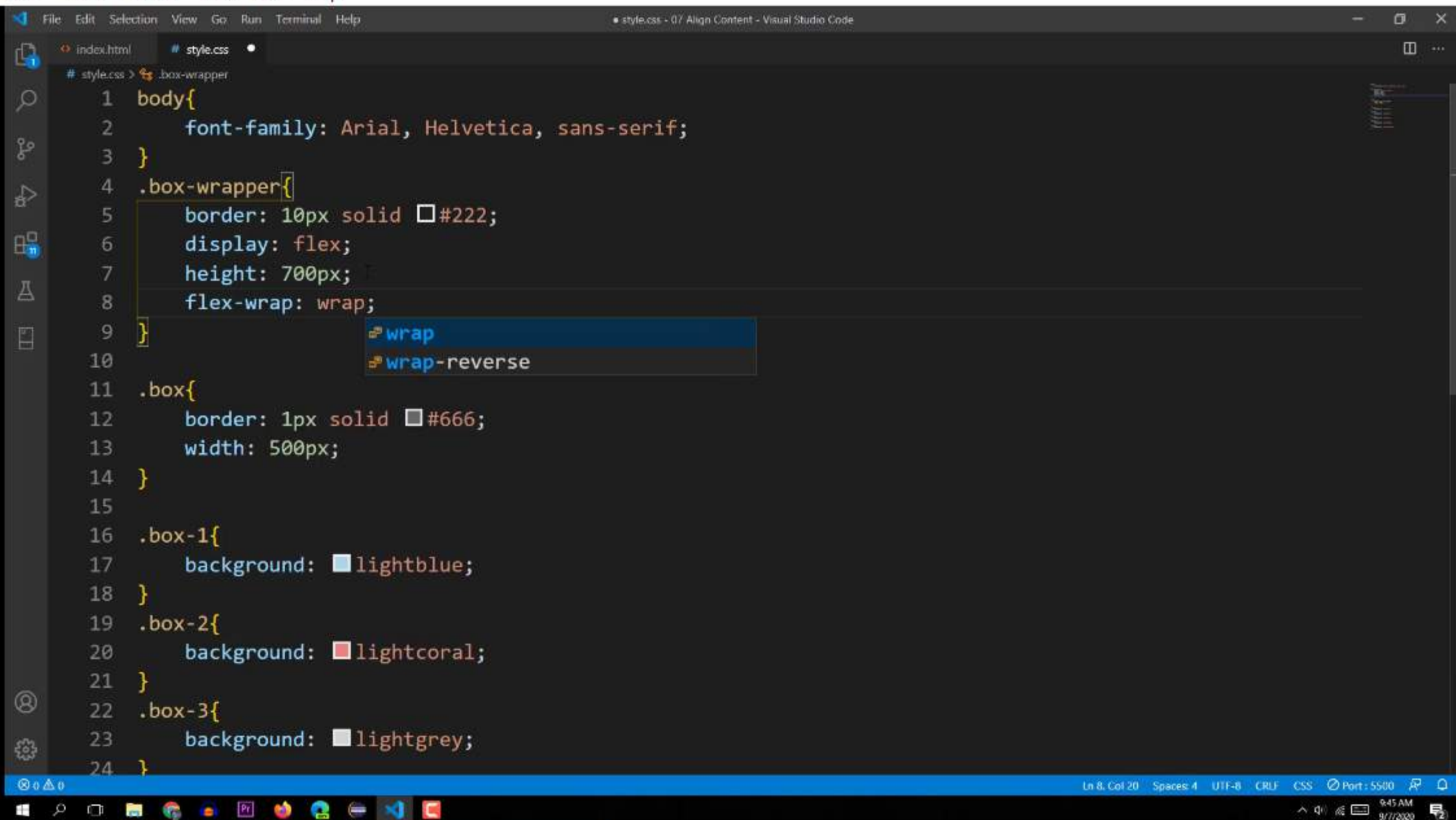
```
File Edit Selection View Go Run Terminal Help
style.css - 07 Align Content - Visual Studio Code

index.html # style.css
# style.css > .box
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 700px;
8     align-items: center;
9 }
10
11 .box{
12     border: 1px solid #666;
13     width: 400px;
14 }
15
16 .box-1{
17     background: lightblue;
18 }
19 .box-2{
20     background: lightcoral;
21 }
22 .box-3{
23     background: lightgrey;
24 }
25 .box-4{
26     background: lightsalmon;
27 }
```



```
File Edit Selection View Go Run Terminal Help
• style.css - 07 Align Content - Visual Studio Code

index.html # style.css X
# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 700px;
8     align-items: center;
9     justify-content: space-between;
10 }
11
12 .box{
13     border: 1px solid #666;
14     width: 400px;
15 }
16
17 .box-1{
18     background: lightblue;
19 }
20 .box-2{
21     background: lightcoral;
22 }
23 .box-3{
24     background: lightgrey;
```



```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 700px;
8     flex-wrap: wrap;
9 }
10
11 .box{
12     border: 1px solid #666;
13     width: 500px;
14 }
15
16 .box-1{
17     background: lightblue;
18 }
19 .box-2{
20     background: lightcoral;
21 }
22 .box-3{
23     background: lightgrey;
24 }
```

Ln 8, Col 20 Spaces: 4 UTF-8 CRLF CSS Port: 5500

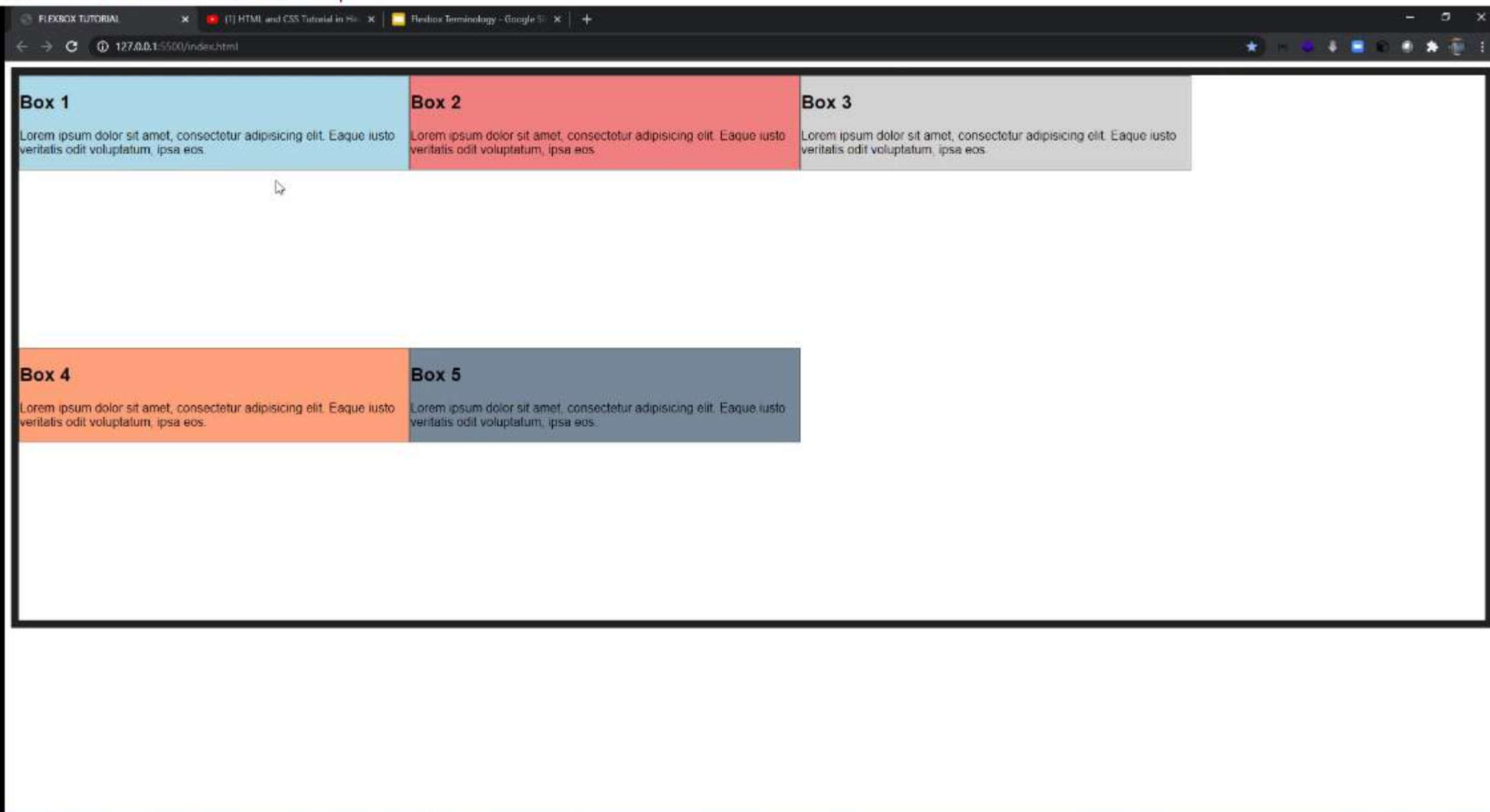
The screenshot shows a web browser window with the address bar displaying `127.0.0.1:5500/index.html`. The browser tabs include "FLEXBOX TUTORIAL", "[1] HTML and CSS Tutorial in Hindi", and "Flexbox Terminology - Google". The main content area displays a Flexbox layout with five colored boxes, each containing the text: "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eaque iusto veritatis odit voluptatum, ipsa eos."

- Box 1** (Light Blue)
- Box 2** (Red)
- Box 3** (Gray)
- Box 4** (Orange)
- Box 5** (Dark Blue)

The boxes are arranged in a grid-like structure, with Box 1, 2, and 3 in the top row, and Box 4 and 5 in the bottom row. The right side of the layout is empty.

```
File Edit Selection View Go Run Terminal Help
style.css - 07 Align Content - Visual Studio Code

index.html # style.css x
# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 700px;
8     flex-wrap: wrap;
9     align-items: flex-start;
10 }
11
12 .box{
13     border: 1px solid #666;
14     width: 500px;
15 }
16
17 .box-1{
18     background: lightblue;
19 }
20 .box-2{
21     background: lightcoral;
22 }
23 .box-3{
24     background: lightgrey;
```

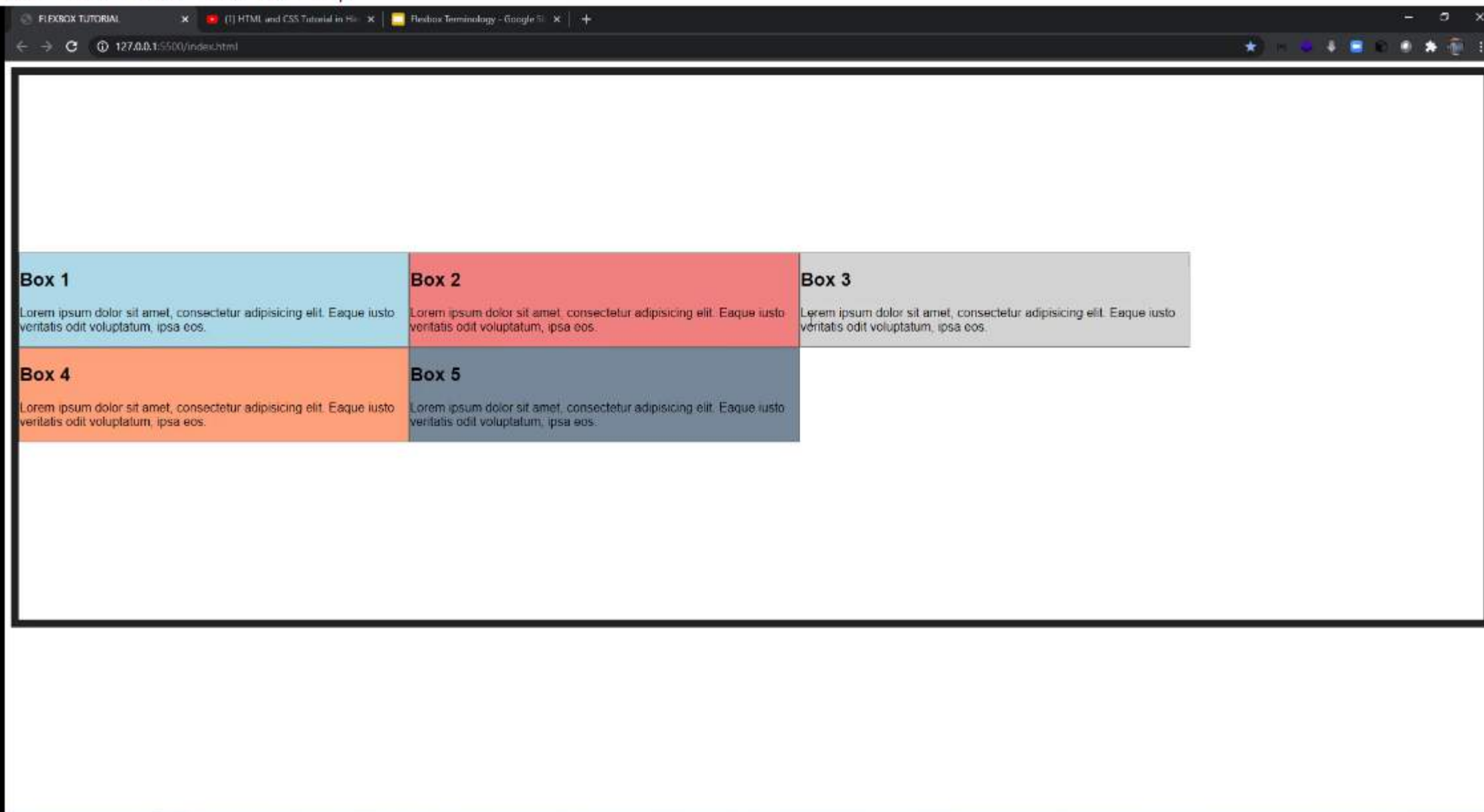


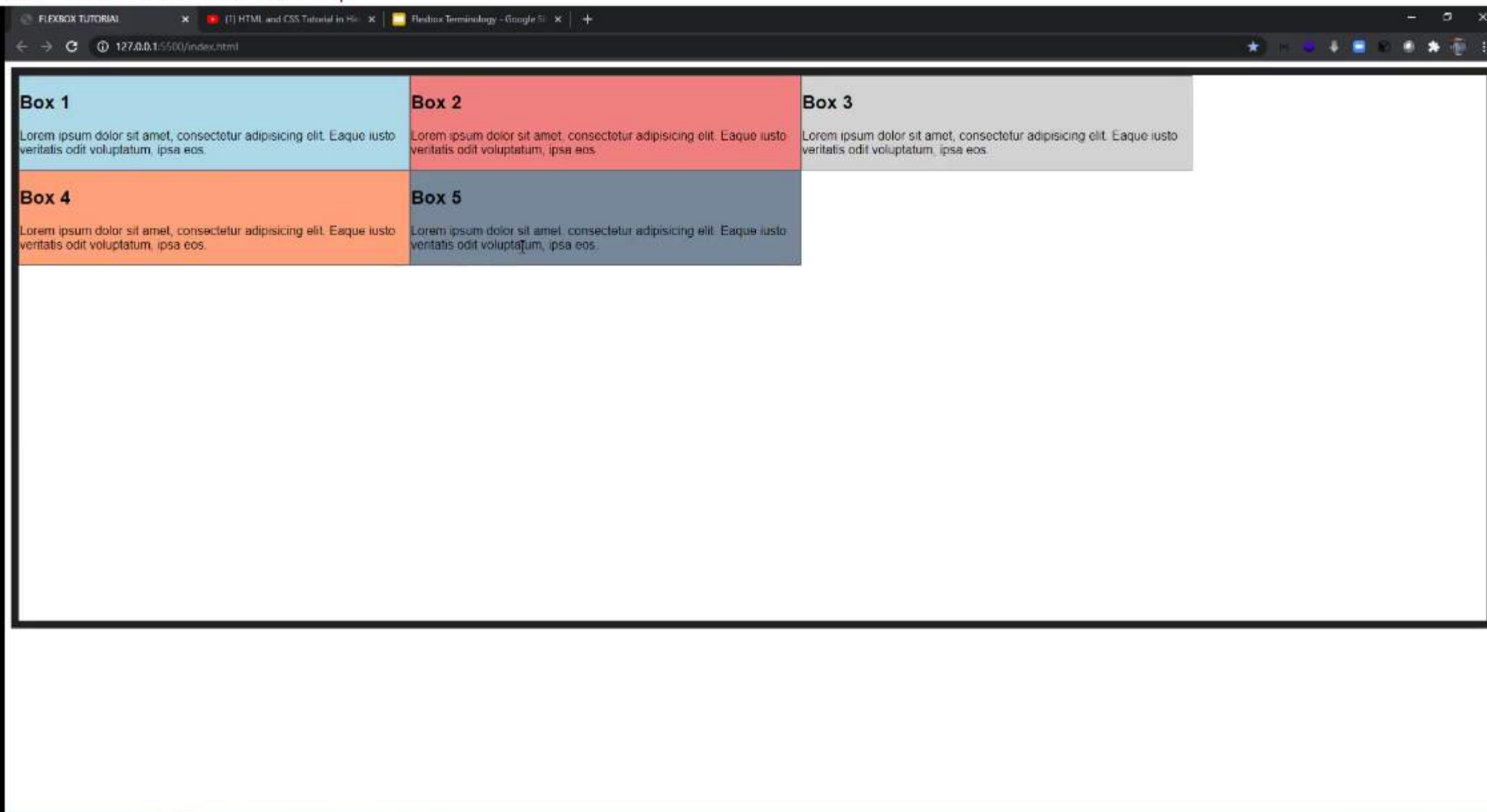


```
File Edit Selection View Go Run Terminal Help
• style.css - 07 Align Content - Visual Studio Code

index.html # style.css
# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 700px;
8     flex-wrap: wrap;
9     align-items: flex-start;
10    align-content: center;
11 }
12
13 .box{
14     border: 1px solid #666;
15     width: 500px;
16 }
17
18 .box-1{
19     background: lightblue;
20 }
21 .box-2{
22     background: lightcoral;
23 }
24 .box-3{
```

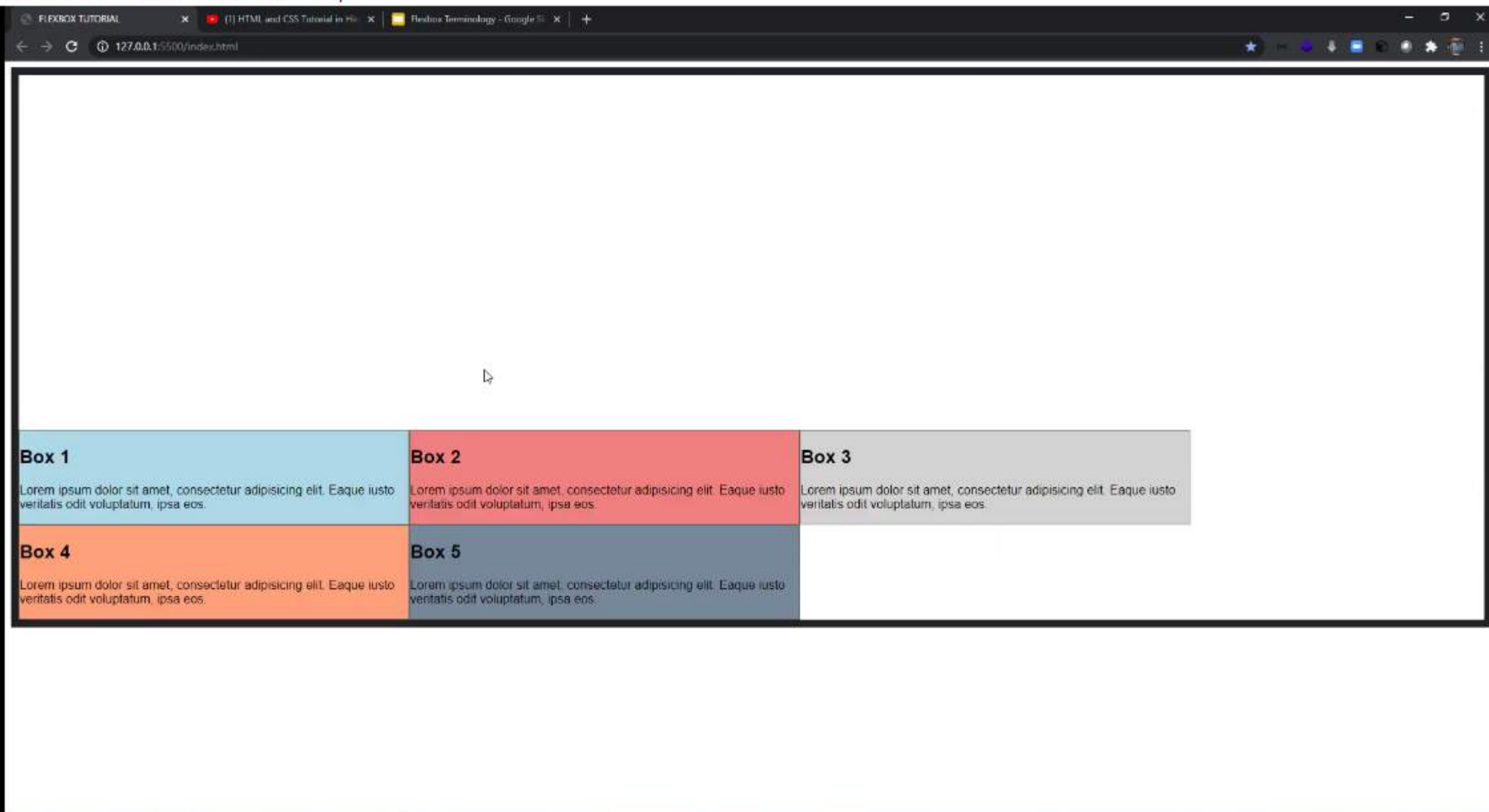






```
File Edit Selection View Go Run Terminal Help
style.css - 07 Align Content - Visual Studio Code

index.html # style.css X
# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 700px;
8     flex-wrap: wrap;
9     align-items: flex-start;
10    align-content: flex-end;
11 }
12
13 .box{
14     border: 1px solid #666;
15     width: 500px;
16 }
17
18 .box-1{
19     background: lightblue;
20 }
21 .box-2{
22     background: lightcoral;
23 }
24 .box-3{
```



```
File Edit Selection View Go Run Terminal Help
• style.css - 07 Align Content - Visual Studio Code

index.html # style.css
# style.css > .box-wrapper
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 400px;
8     flex-wrap: wrap;
9     align-items: flex-start;
10    align-content: space-between;
11 }
12
13 .box{
14     border: 1px solid #666;
15     width: 500px;
16 }
17
18 .box-1{
19     background: lightblue;
20 }
21 .box-2{
22     background: lightcoral;
23 }
24 .box-3{
```

127.0.0.1:5500/index.html

**Box 1**  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

**Box 2**  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

**Box 3**  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

**Box 4**  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

**Box 5**  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaue iusto veritatis odit voluptatum, ipsa eos.

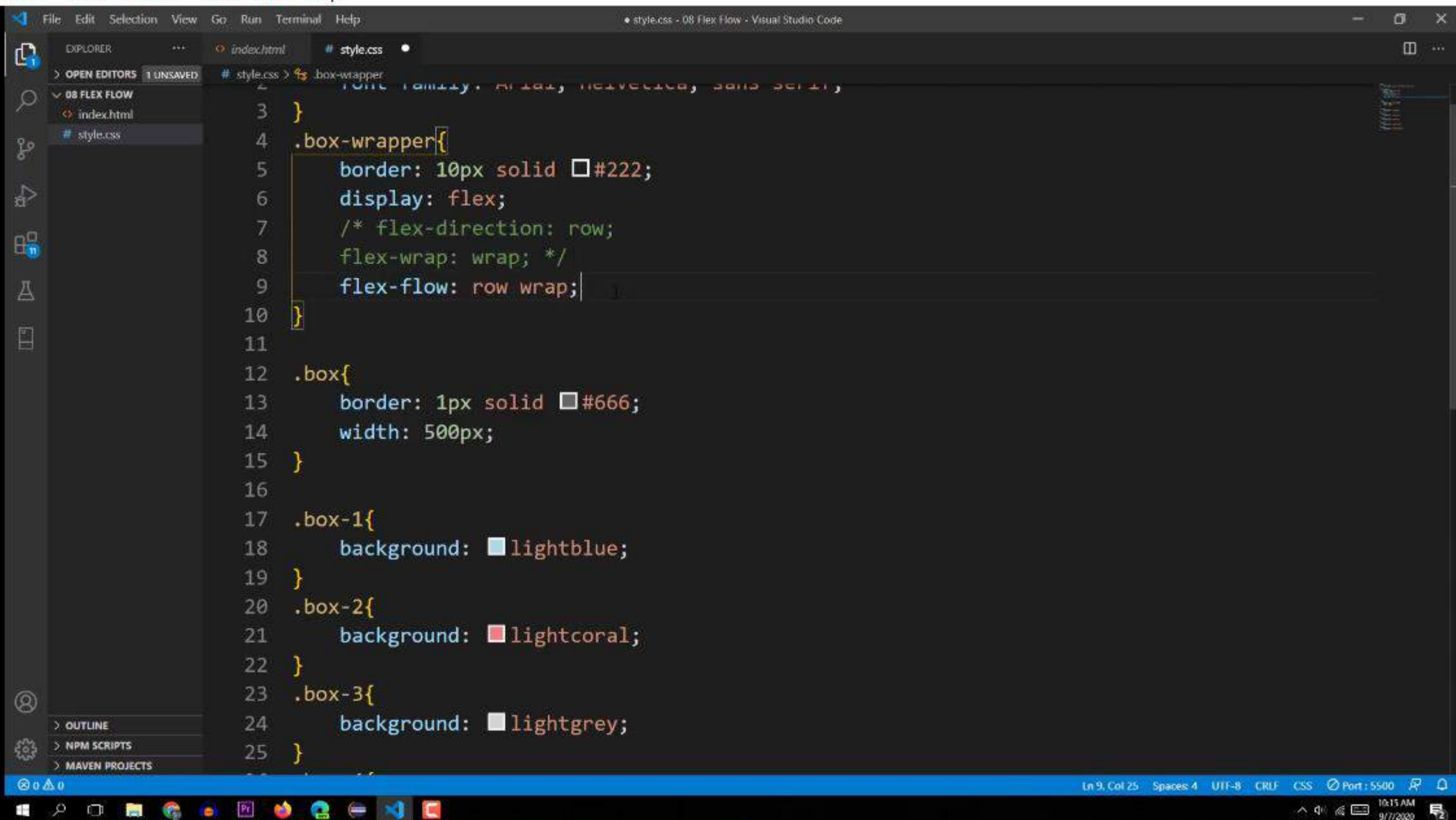


Flex Flow to Join different properties

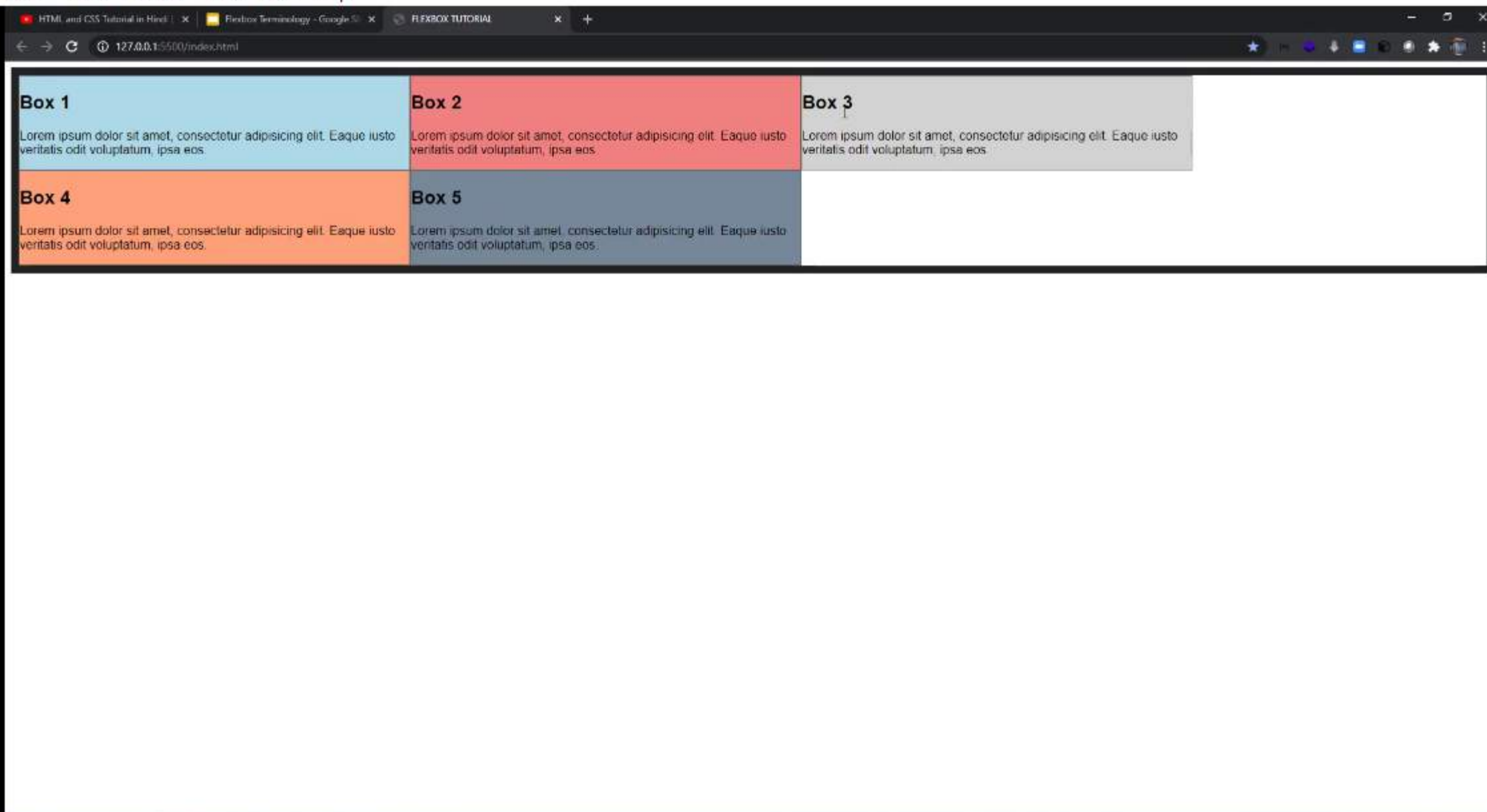
```
File Edit Selection View Go Run Terminal Help
style.css - 08 Flex Flow - Visual Studio Code

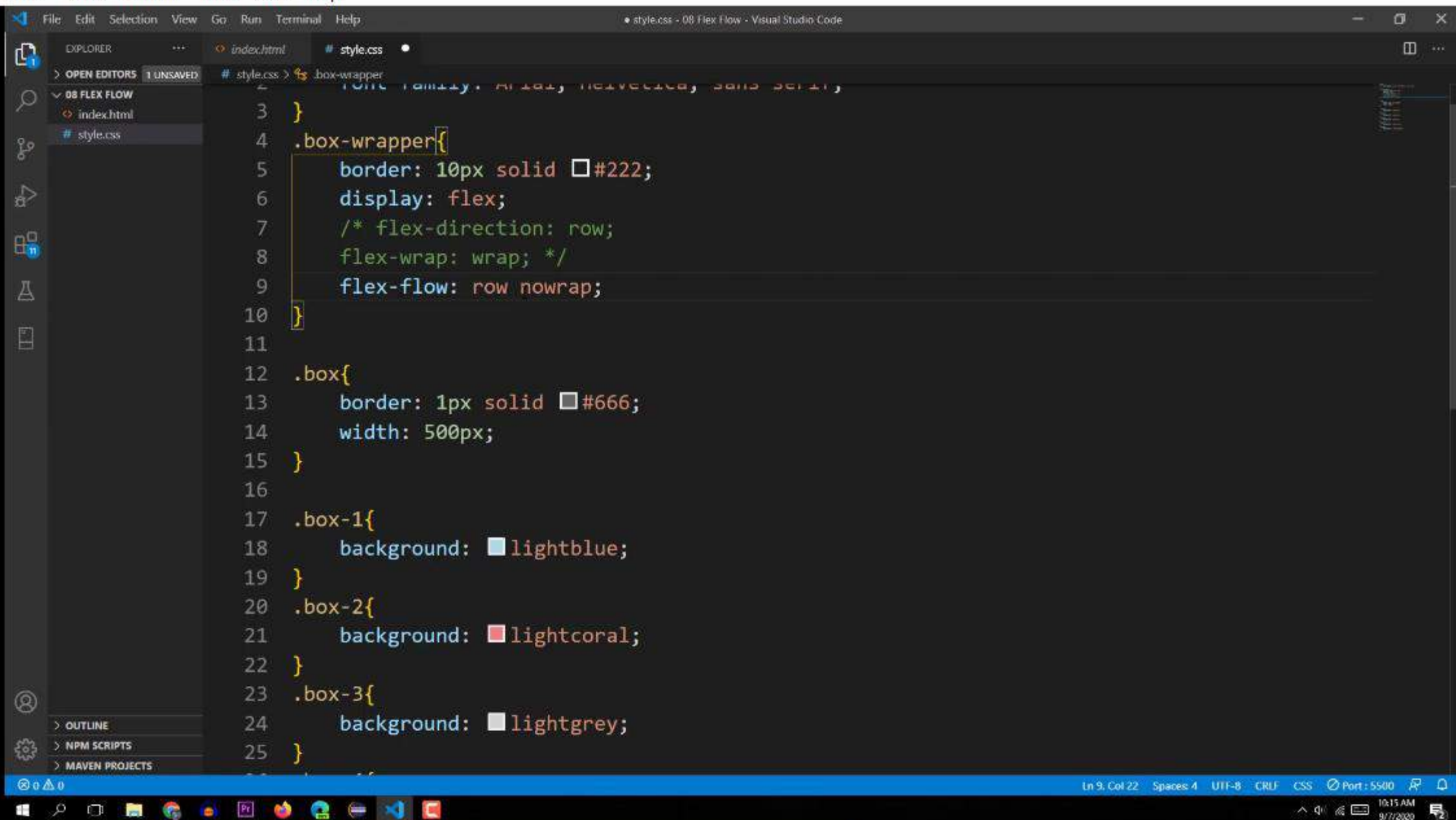
EXPLORER
> OPEN EDITORS 1 UNSAVED
  08 FLEX FLOW
    index.html
    style.css

3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     flex-direction: row;
8     flex-wrap: wrap;
9     flex-flow: row wrap;
10 }
11
12 .box{
13     border: 1px solid #666;
14     width: 500px;
15 }
16
17 .box-1{
18     background: lightblue;
19 }
20 .box-2{
21     background: lightcoral;
22 }
23 .box-3{
24     background: lightgrey;
25 }
```



```
1 font-family: Arial, Helvetica, sans-serif;
2
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     /* flex-direction: row;
8     flex-wrap: wrap; */
9     flex-flow: row wrap;
10 }
11
12 .box{
13     border: 1px solid #666;
14     width: 500px;
15 }
16
17 .box-1{
18     background: lightblue;
19 }
20 .box-2{
21     background: lightcoral;
22 }
23 .box-3{
24     background: lightgrey;
25 }
```

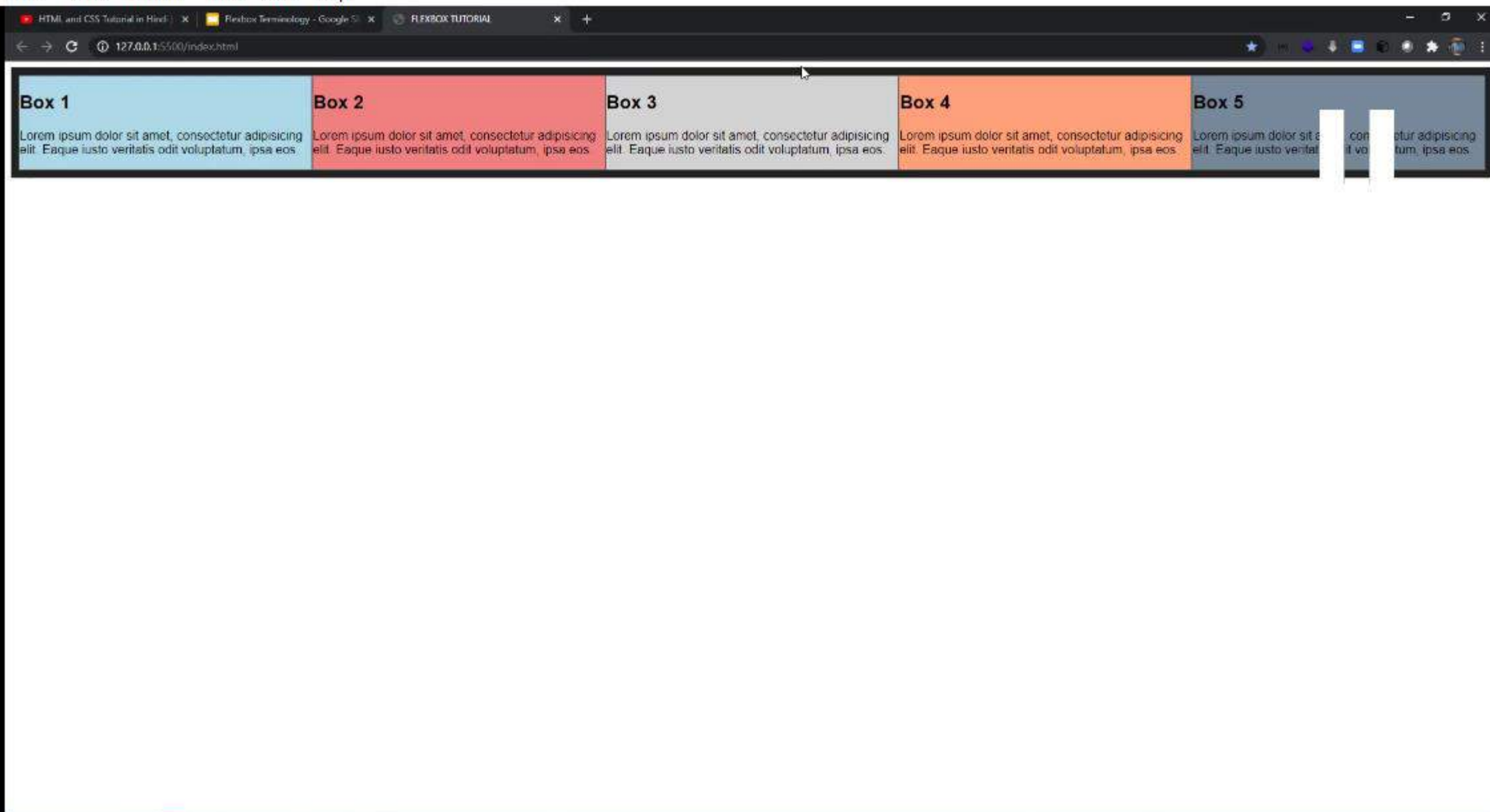




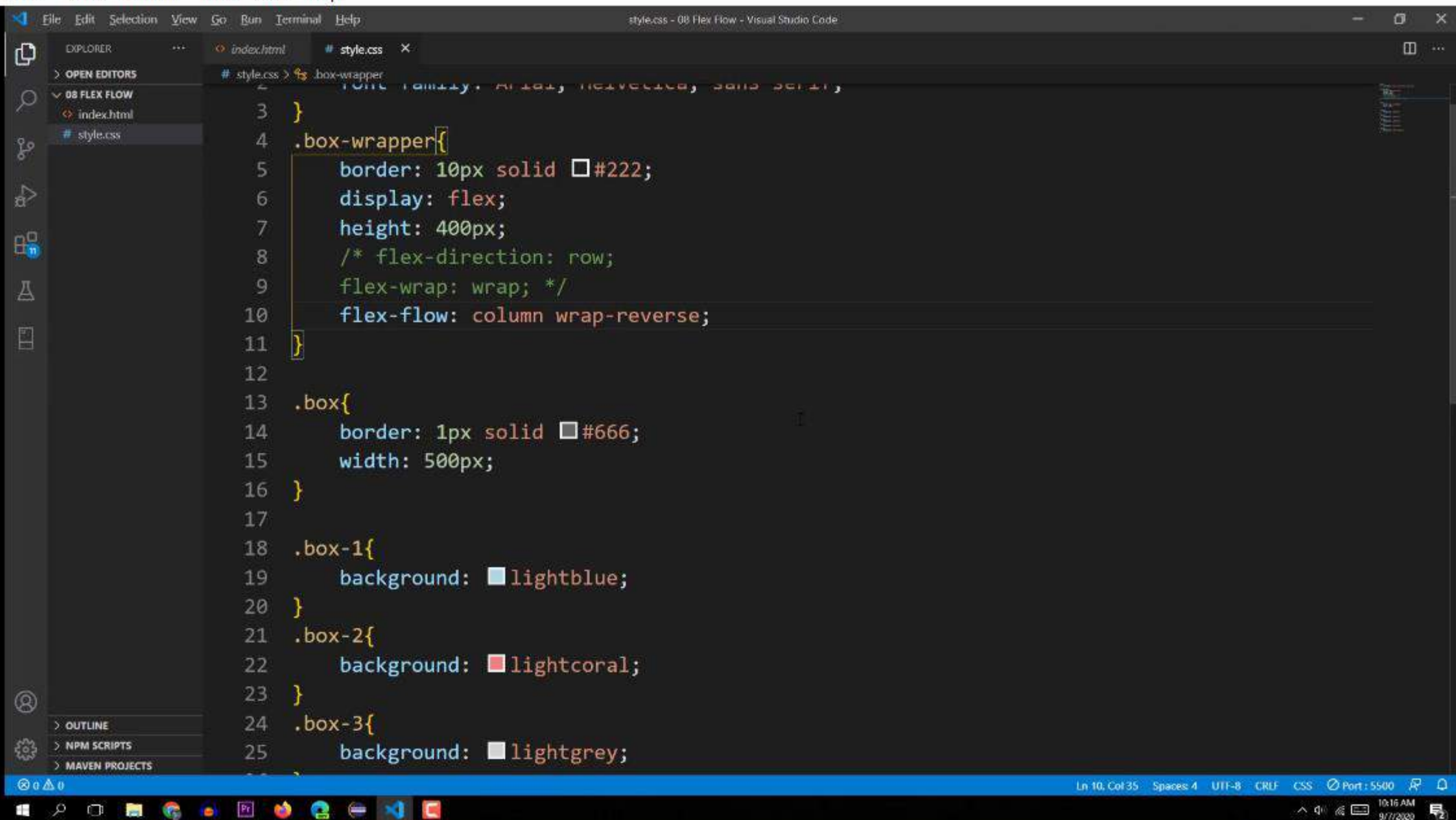
The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays a project named '08 FLEX FLOW' with two files: 'index.html' and 'style.css'. The 'style.css' file is open in the main editor area, showing the following CSS code:

```
1 font-family: Arial, Helvetica, sans-serif;  
2  
3 }  
4 .box-wrapper{  
5     border: 10px solid #222;  
6     display: flex;  
7     /* flex-direction: row;  
8     flex-wrap: wrap; */  
9     flex-flow: row nowrap;  
10 }  
11  
12 .box{  
13     border: 1px solid #666;  
14     width: 500px;  
15 }  
16  
17 .box-1{  
18     background: lightblue;  
19 }  
20 .box-2{  
21     background: lightcoral;  
22 }  
23 .box-3{  
24     background: lightgrey;  
25 }
```

The status bar at the bottom indicates the current position is 'Ln 9, Col 22', with 'Spaces: 4', 'UTF-8', 'CRLF', and 'CSS' encoding. It also shows 'Port: 5500' and the system clock '10:15 AM 9/7/2020'.

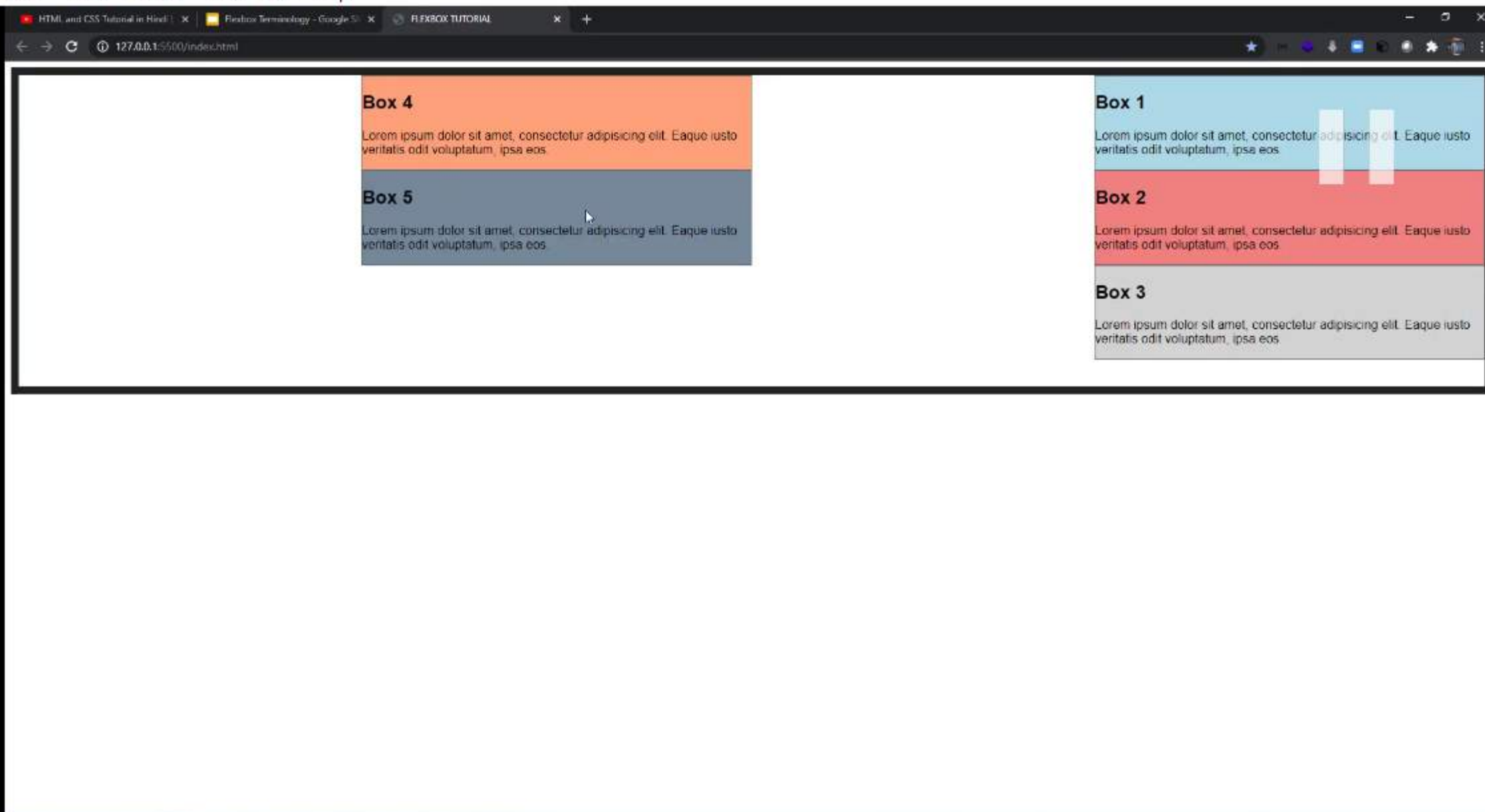


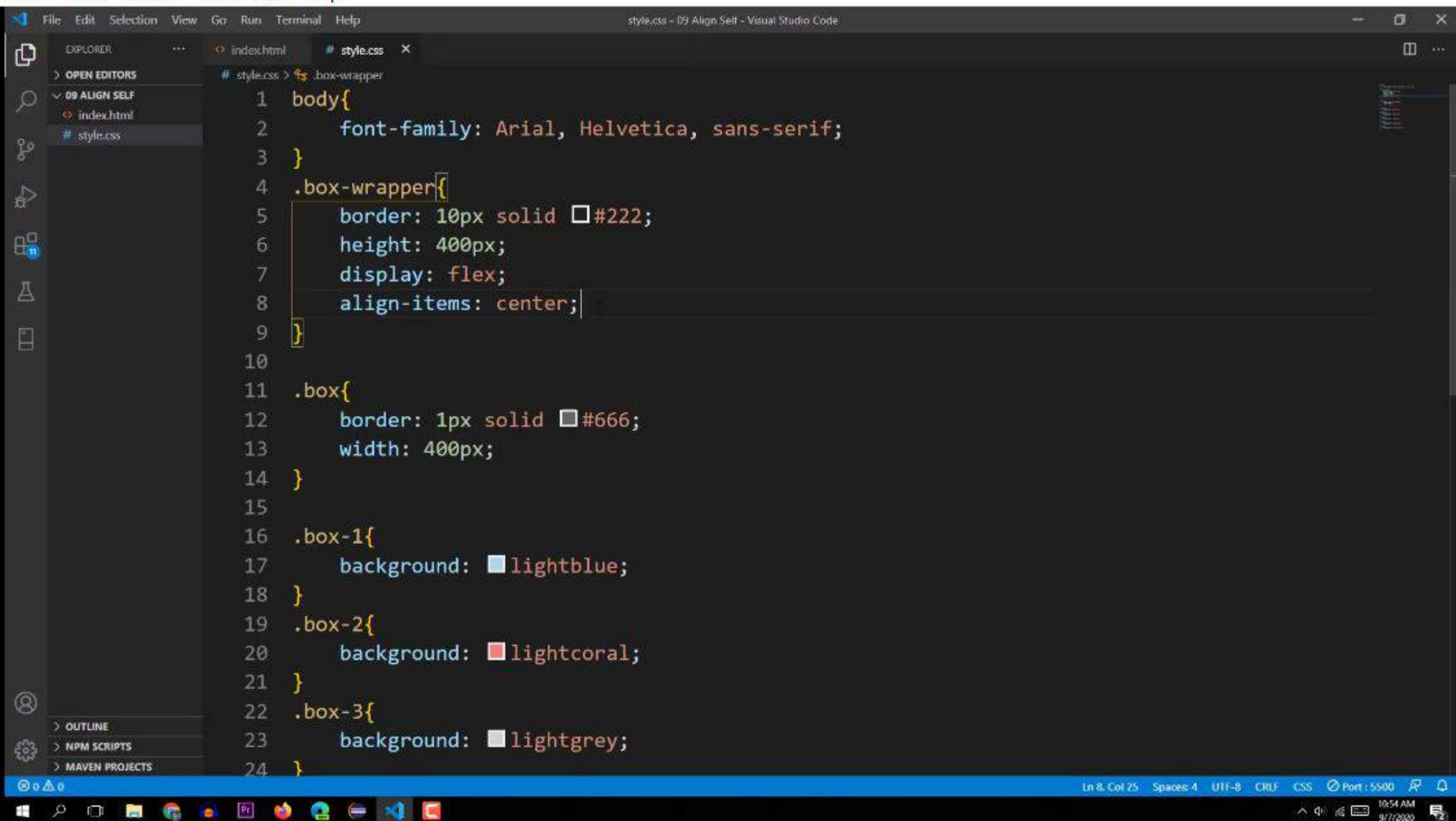




The screenshot shows the Visual Studio Code editor with a dark theme. The Explorer sidebar on the left shows a project named '08 FLEX FLOW' with two files: 'index.html' and 'style.css'. The 'style.css' file is open in the main editor. The code defines a flex container and three child boxes. The container has a dark grey border, flex display, and column wrap-reverse flow. The three boxes have different background colors: lightblue, lightcoral, and lightgrey.

```
1 font-family: Arial, Helvetica, sans-serif;
2
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     display: flex;
7     height: 400px;
8     /* flex-direction: row;
9     flex-wrap: wrap; */
10    flex-flow: column wrap-reverse;
11 }
12
13 .box{
14     border: 1px solid #666;
15     width: 500px;
16 }
17
18 .box-1{
19     background: lightblue;
20 }
21 .box-2{
22     background: lightcoral;
23 }
24 .box-3{
25     background: lightgrey;
```

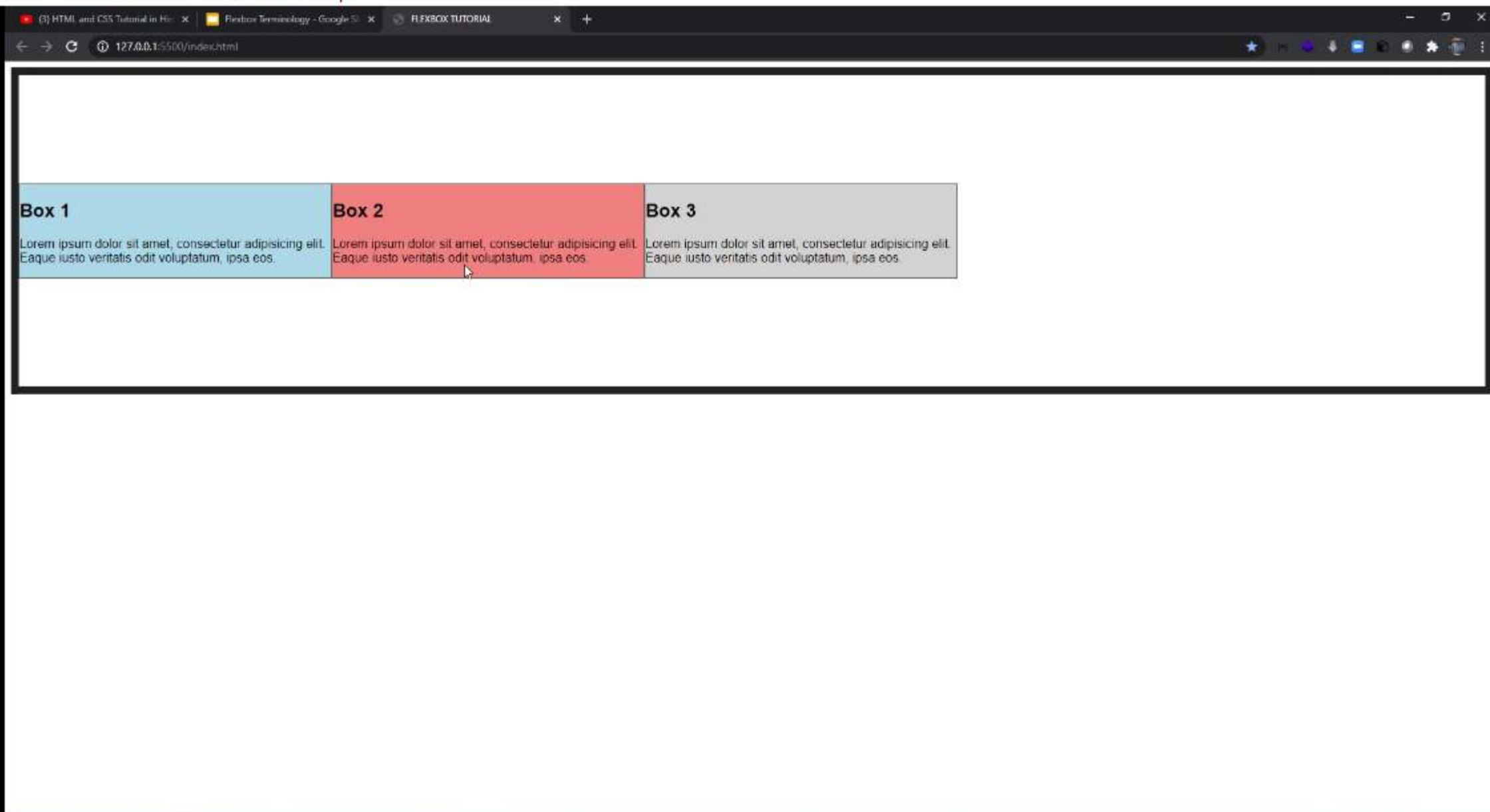


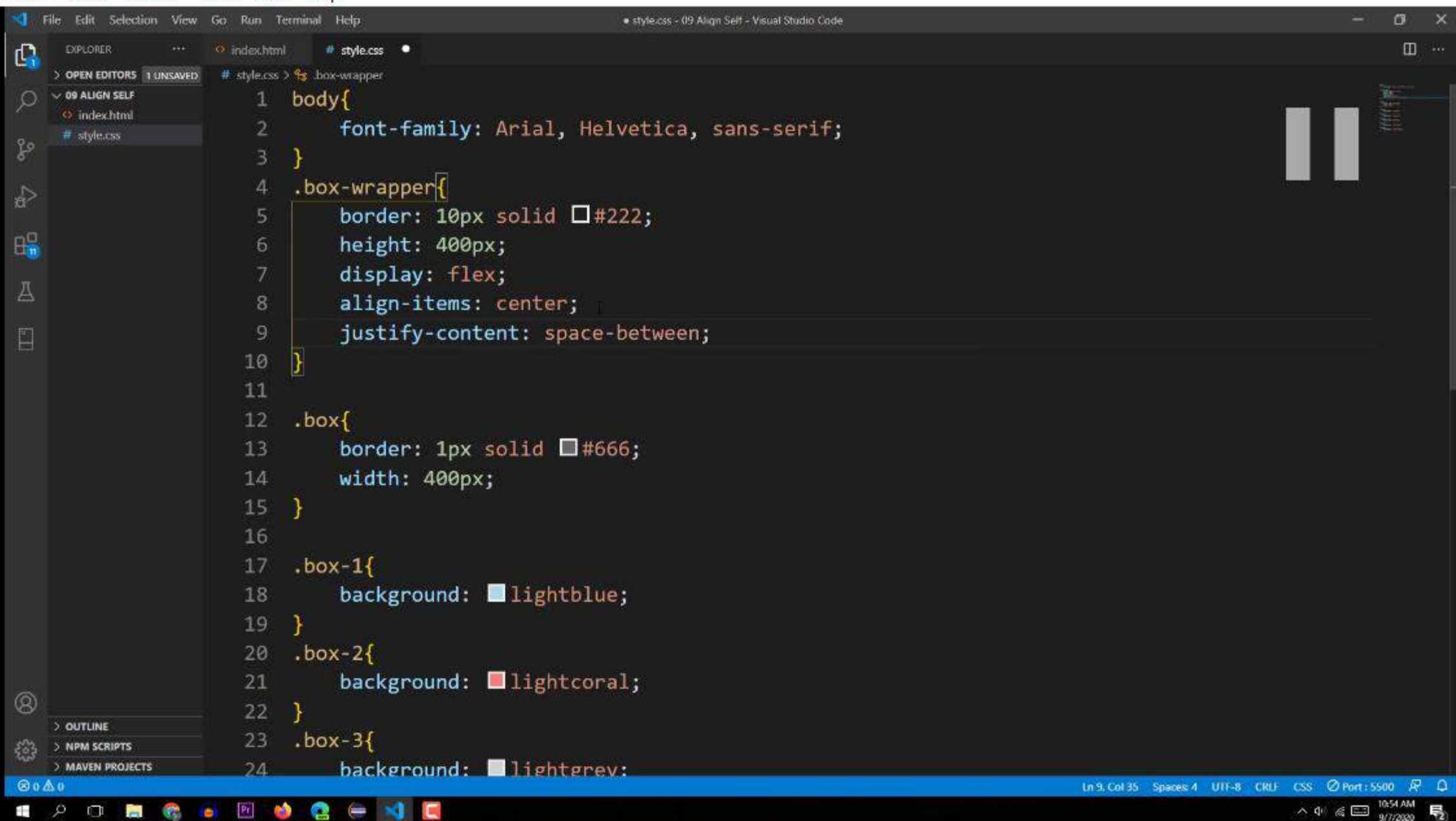


The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays the file structure with '09 ALIGN SELF' expanded, showing 'index.html' and 'style.css'. The main editor area is open to 'style.css', showing the following CSS code:

```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     height: 400px;
7     display: flex;
8     align-items: center;
9 }
10
11 .box{
12     border: 1px solid #666;
13     width: 400px;
14 }
15
16 .box-1{
17     background: lightblue;
18 }
19 .box-2{
20     background: lightcoral;
21 }
22 .box-3{
23     background: lightgrey;
24 }
```

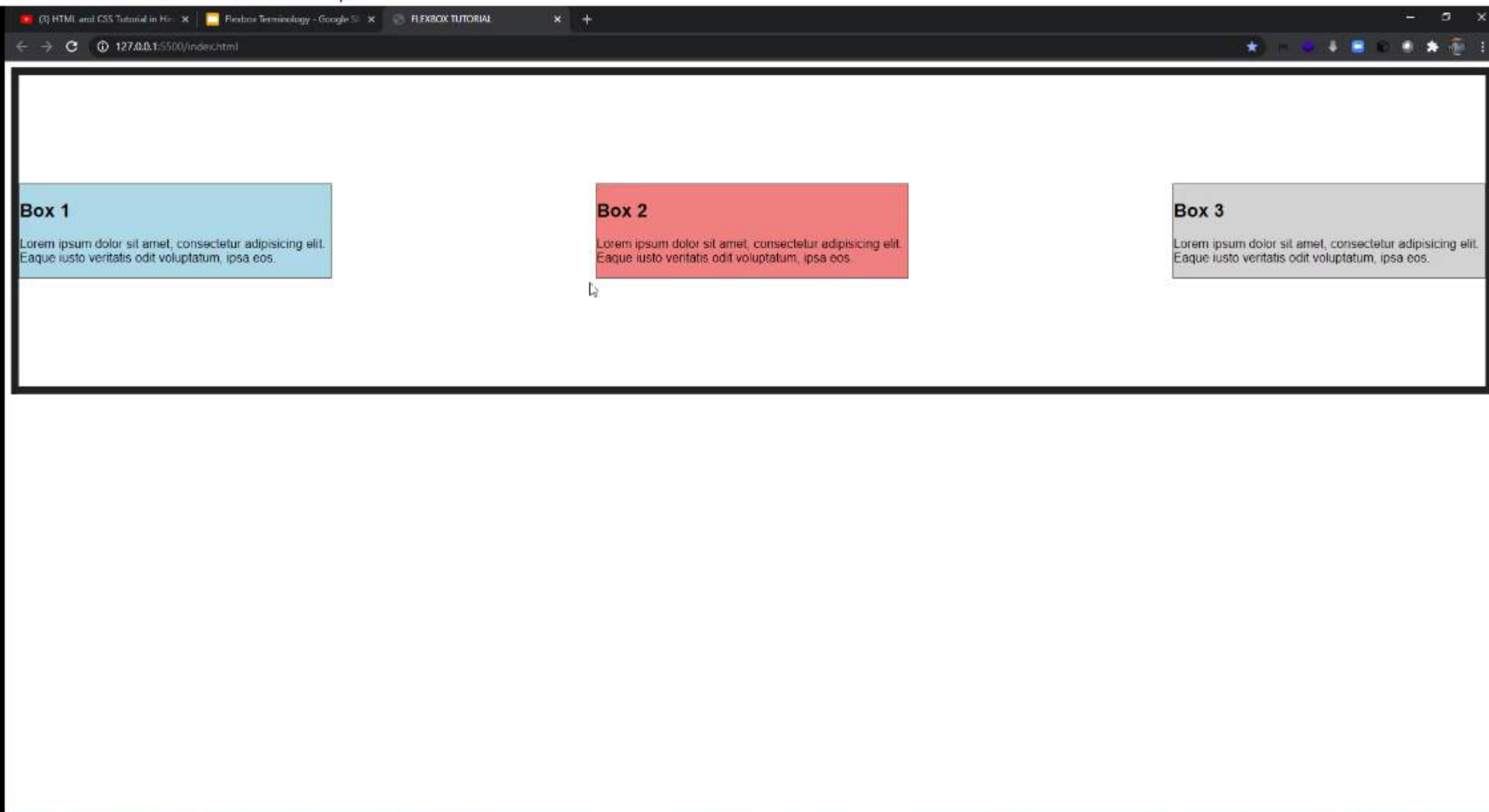
The status bar at the bottom indicates 'Ln 8, Col 25', 'Spaces: 4', 'UTF-8', 'CRLF', 'CSS', and 'Port: 5500'. The system tray at the very bottom shows the time as 02:04 and the date as 9/7/2020.





```
1 body{
2     font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5     border: 10px solid #222;
6     height: 400px;
7     display: flex;
8     align-items: center;
9     justify-content: space-between;
10 }
11
12 .box{
13     border: 1px solid #666;
14     width: 400px;
15 }
16
17 .box-1{
18     background: lightblue;
19 }
20 .box-2{
21     background: lightcoral;
22 }
23 .box-3{
24     background: lightgrey;
```



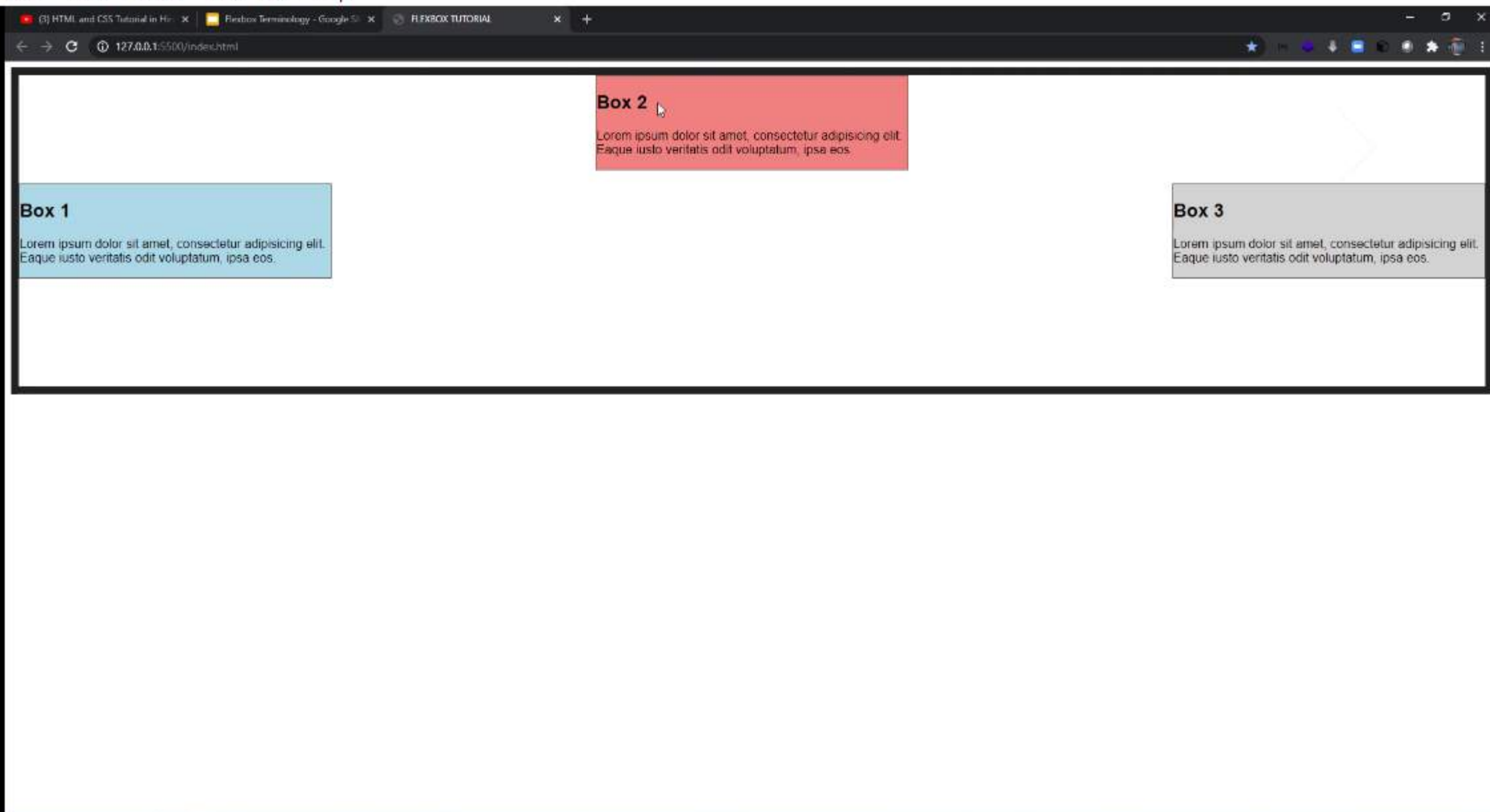


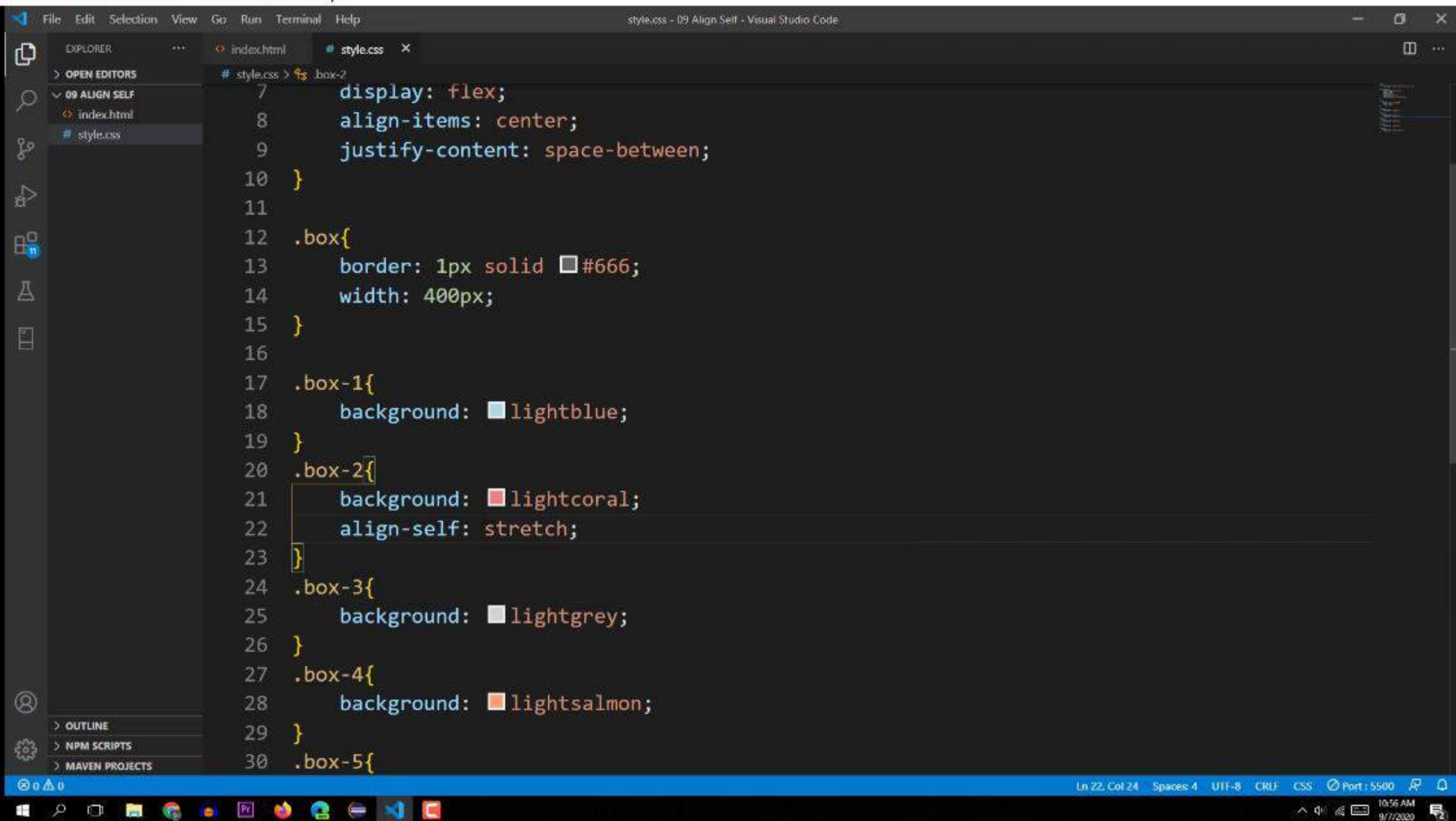


# Flex properties on individual boxes/Items

- Align Self

```
7      display: flex;
8      align-items: center;
9      justify-content: space-between;
10   }
11
12   .box{
13       border: 1px solid #666;
14       width: 400px;
15   }
16
17   .box-1{
18       background: lightblue;
19   }
20   .box-2{
21       background: lightcoral;
22       align-self: flex-start;
23   }
24   .box-3{
25       background: lightgrey;
26   }
27   .box-4{
28       background: lightsalmon;
29   }
30   .box-5{
```

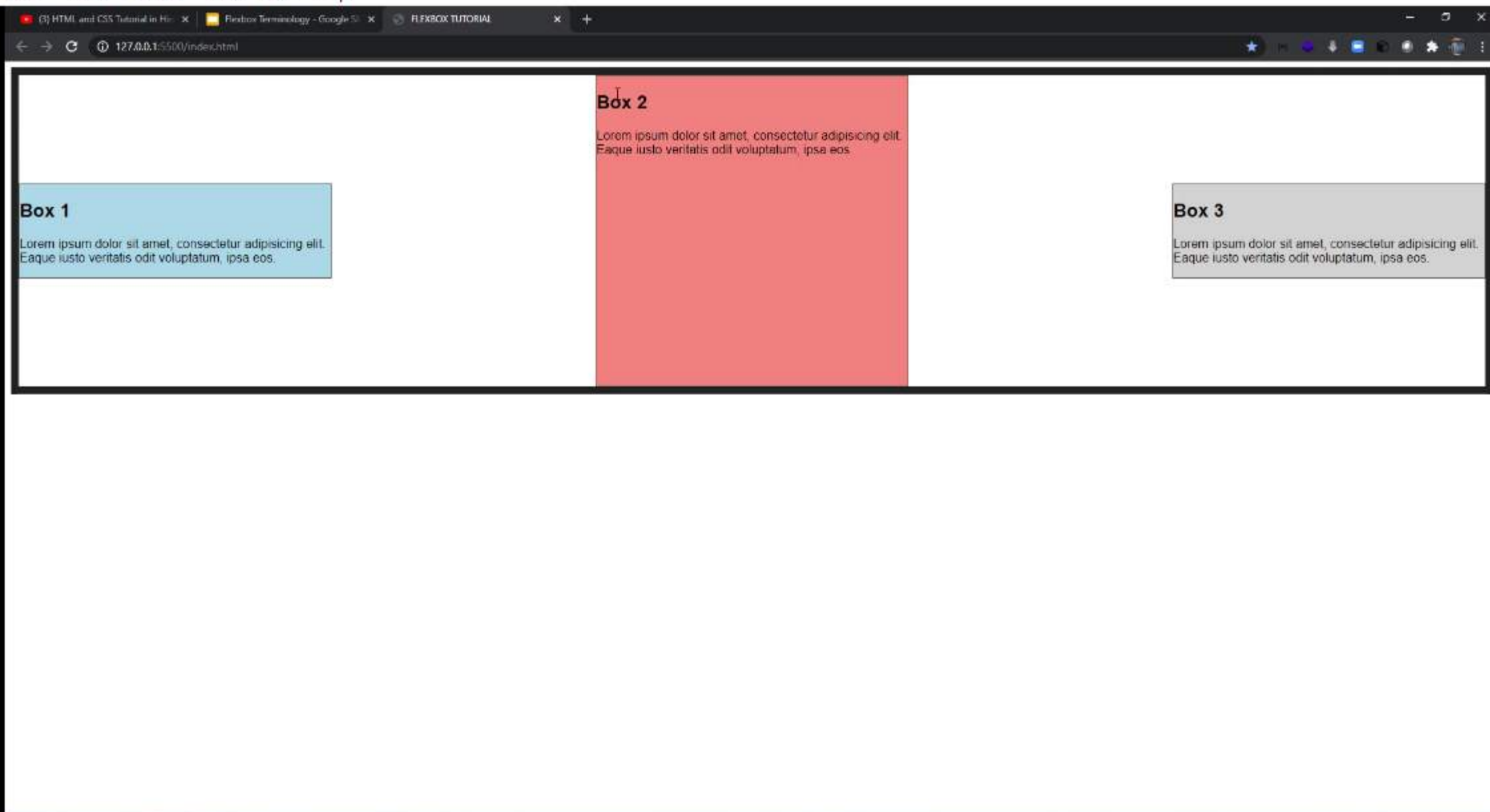


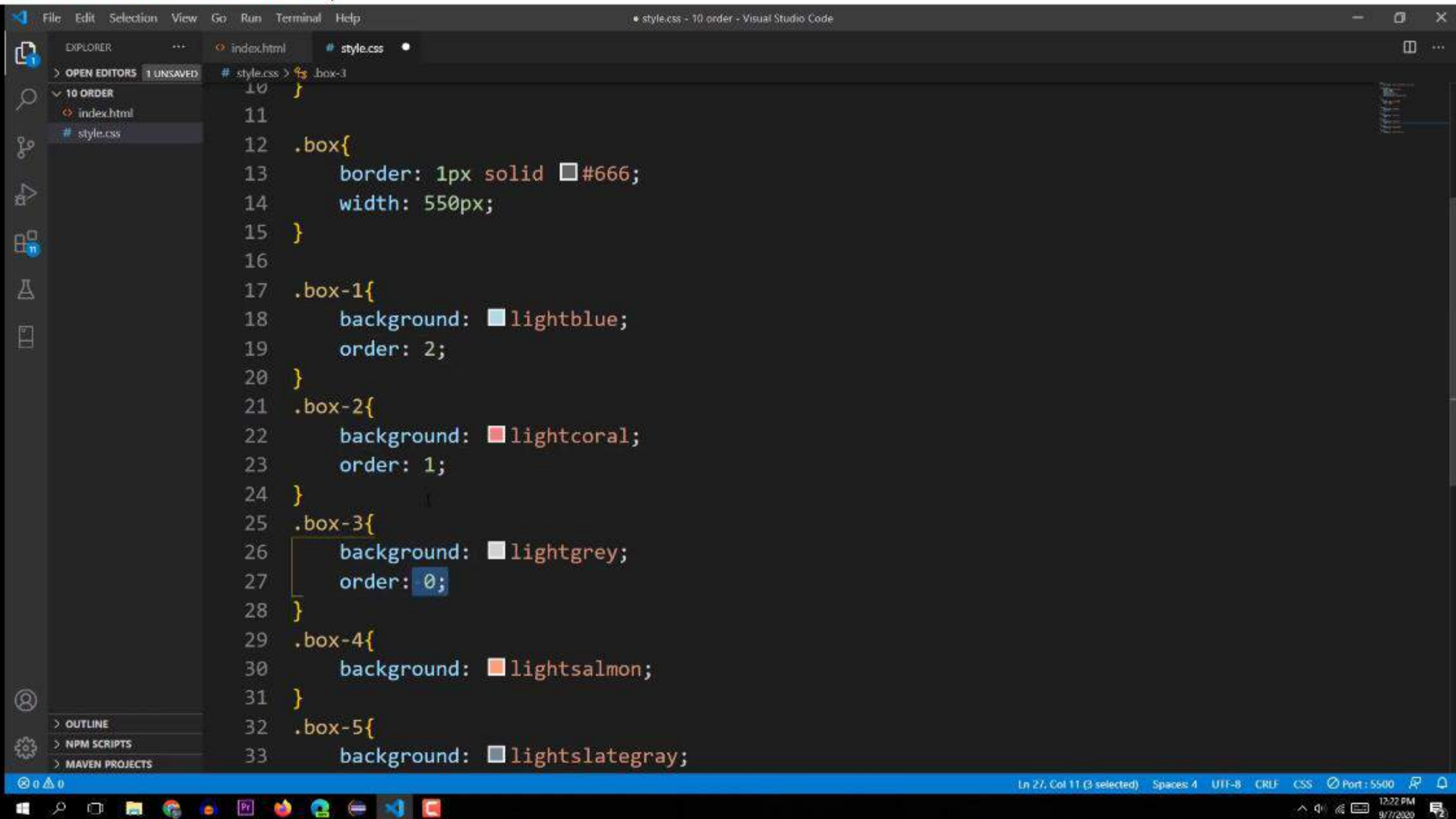


The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays the file structure with '09 ALIGN SELF' expanded, showing 'index.html' and 'style.css'. The main editor area is open to 'style.css', showing CSS rules for a Flexbox layout. The code defines a flex container and five flex items with various background colors and alignment properties. The status bar at the bottom indicates the current position is Line 22, Column 24, with 4 spaces, UTF-8 encoding, CRLF line endings, and CSS syntax highlighting. A port listener is also shown on port 5500.

```
1  display: flex;
2  align-items: center;
3  justify-content: space-between;
4  }
5
6  .box{
7      border: 1px solid #666;
8      width: 400px;
9  }
10
11  .box-1{
12      background: lightblue;
13  }
14  .box-2{
15      background: lightcoral;
16      align-self: stretch;
17  }
18  .box-3{
19      background: lightgrey;
20  }
21  .box-4{
22      background: lightsalmon;
23  }
24  .box-5{
```

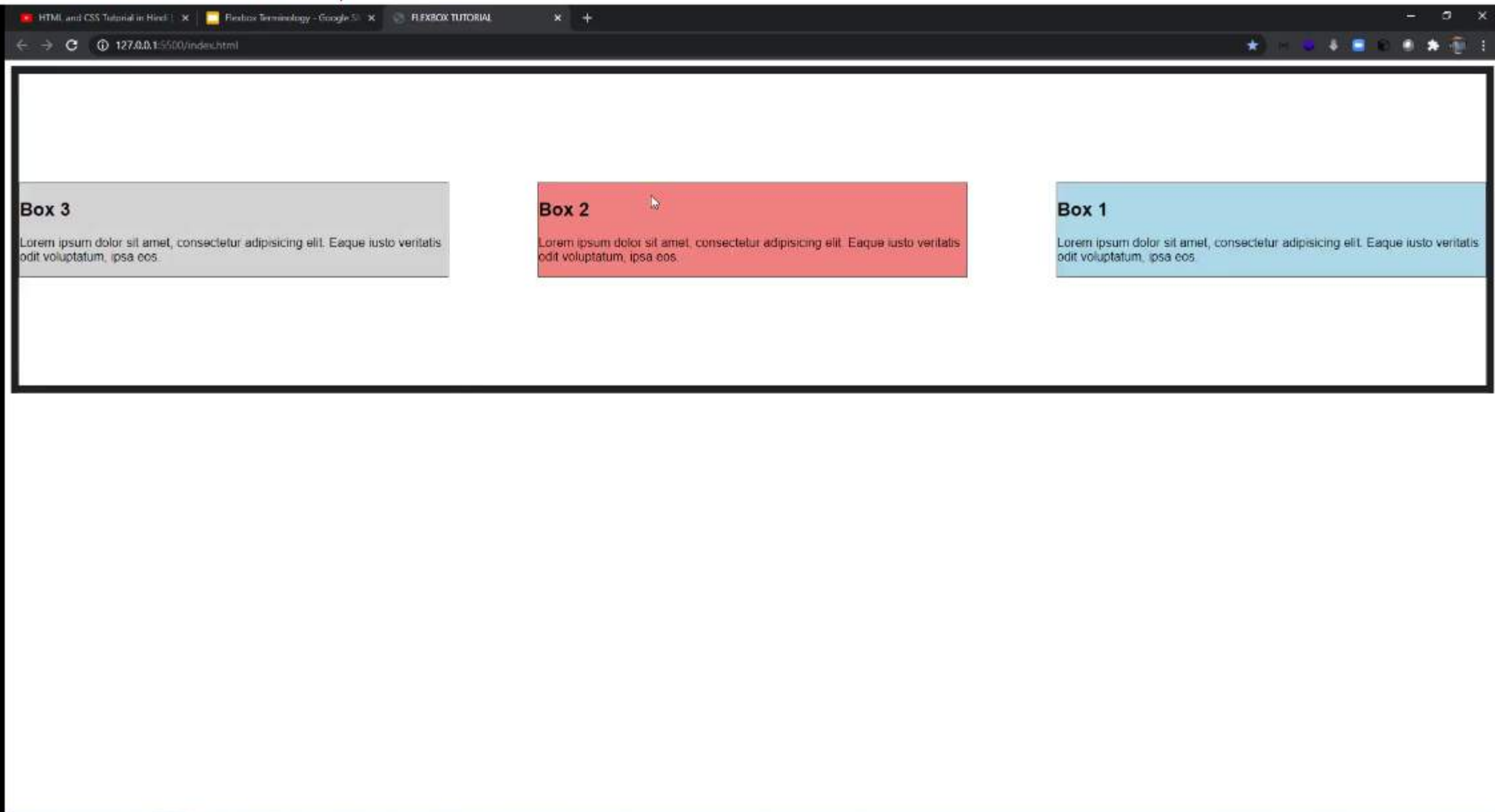
Ln 22, Col 24 Spaces: 4 UTF-8 CRLF CSS Port: 5500





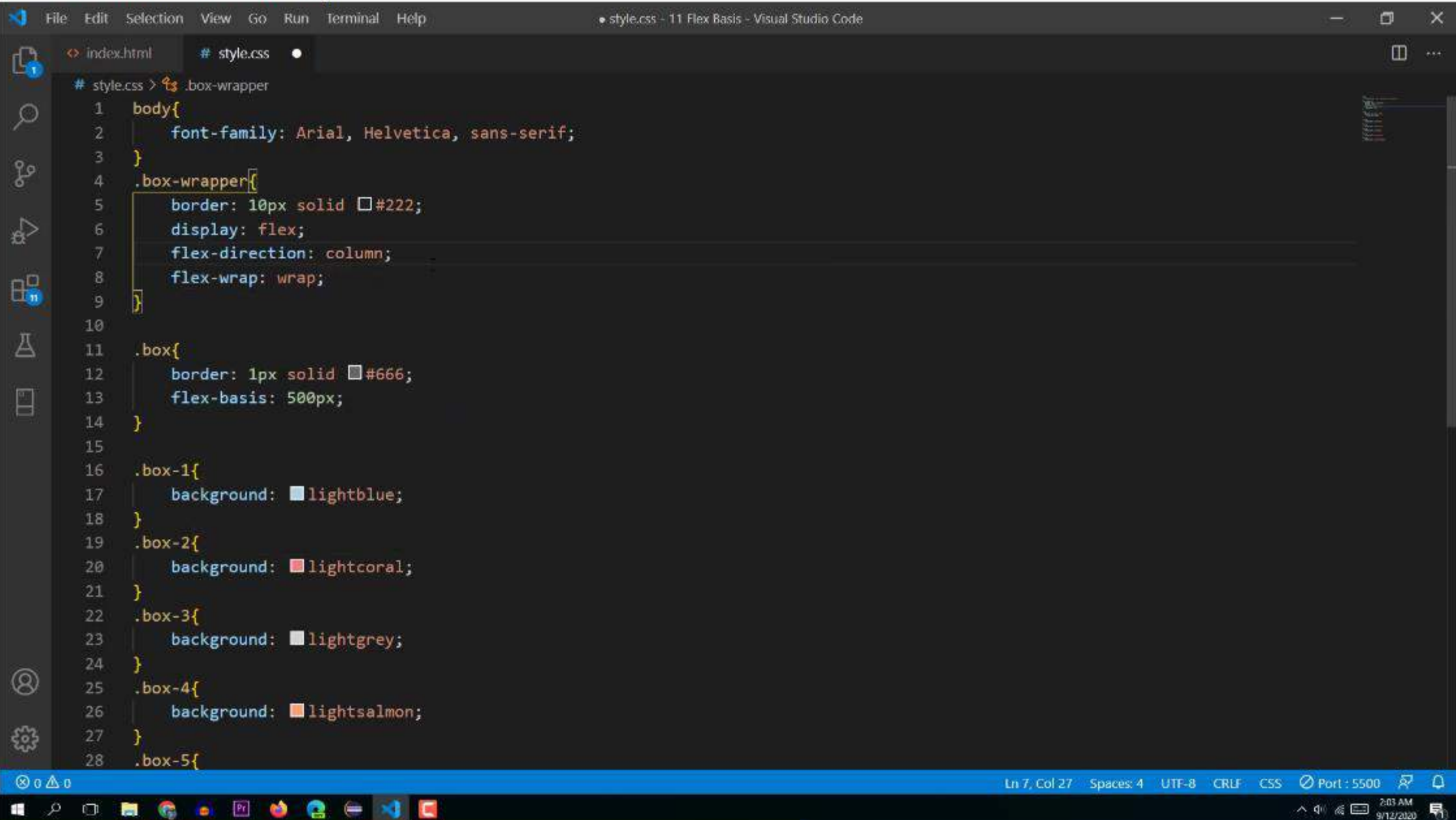
```
10 }
11
12 .box{
13     border: 1px solid #666;
14     width: 550px;
15 }
16
17 .box-1{
18     background: lightblue;
19     order: 2;
20 }
21 .box-2{
22     background: lightcoral;
23     order: 1;
24 }
25 .box-3{
26     background: lightgrey;
27     order: 0;
28 }
29 .box-4{
30     background: lightsalmon;
31 }
32 .box-5{
33     background: lightslategray;
```





# Flex Basis

- Initial length to main axis
- Don't need to use wrap



```
# style.css > .box-wrapper
1 body{
2   font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5   border: 10px solid #222;
6   display: flex;
7   flex-direction: column;
8   flex-wrap: wrap;
9 }
10
11 .box{
12   border: 1px solid #666;
13   flex-basis: 500px;
14 }
15
16 .box-1{
17   background: lightblue;
18 }
19 .box-2{
20   background: lightcoral;
21 }
22 .box-3{
23   background: lightgrey;
24 }
25 .box-4{
26   background: lightsalmon;
27 }
28 .box-5{
```

Ln 7, Col 27 Spaces: 4 UTF-8 CRLF CSS Port: 5500

Flexbox Tutorial - Google

127.0.0.1:5500/index.html

**Box 1**  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.

**Box 2**  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.

**Box 3**  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.

**Box 4**  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.

**Box 5**  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.

Elements Console Sources Network Performance Memory Application Security Lighthouse Adblock Plus

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body>
    <div class="box-wrapper">
      <div class="box box-1">...</div> -- $0
      <div class="box box-2">...</div>
      <div class="box box-3">...</div>
      <div class="box box-4">...</div>
      <div class="box box-5">...</div>
    </div>
    <!-- Code injected by live-server -->
    <script type="text/javascript">...</script>
  </body>
</html>
```

html body div.box-wrapper div.box.box-1

Styles Computed Event Listeners DOM Breakpoints Properties Accessibility

Filter :hov .cls +

body {  
 font-family: Arial, Helvetica, sans-serif;  
}

margin -  
border 1  
padding -  
500 x 119.812

```
File Edit Selection View Go Run Terminal Help
style.css - 11 Flex Basis - Visual Studio Code

index.html # style.css x
# style.css > .box
1 body{
2   font-family: Arial, Helvetica, sans-serif;
3 }
4 .box-wrapper{
5   border: 10px solid #222;
6   display: flex;
7   flex-direction: column;
8   flex-wrap: wrap;
9 }
10
11 .box{
12   border: 1px solid #666;
13   flex-basis: 500px;
14   height: 400px;
15 }
16
17 .box-1{
18   background: lightblue;
19 }
20 .box-2{
21   background: lightcoral;
22 }
23 .box-3{
24   background: lightgrey;
25 }
26 .box-4{
27   background: lightsalmon;
28 }
```

Ln 13, Col 23 (19 selected) Spaces: 4 UTF-8 CRLF CSS Port: 5500

2:04 AM  
9/12/2020

FlexBOX TUTORIAL

127.0.0.1:5500/index.html

## Box 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eaque iusto veritatis edit voluptatum, ipsa eos.

Elements Console Sources Network Performance Memory Application Security Lighthouse Adblock Plus

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body>
    <div class="box-wrapper">
      <div class="box box-1">...</div> -- $0
      <div class="box box-2">...</div>
      <div class="box box-3">...</div>
      <div class="box box-4">...</div>
      <div class="box box-5">...</div>
    </div>
    <!-- Code injected by live-server -->
    <script type="text/javascript">...</script>
  </body>
</html>
```

html body div.box-wrapper div.box.box-1

Styles Computed Event Listeners DOM Breakpoints Properties Accessibility

Filter: :hov .cls +

Inherited from: body

```
body {
  font-family: Arial, Helvetica, sans-serif;
}
```

margin: -

border: 1

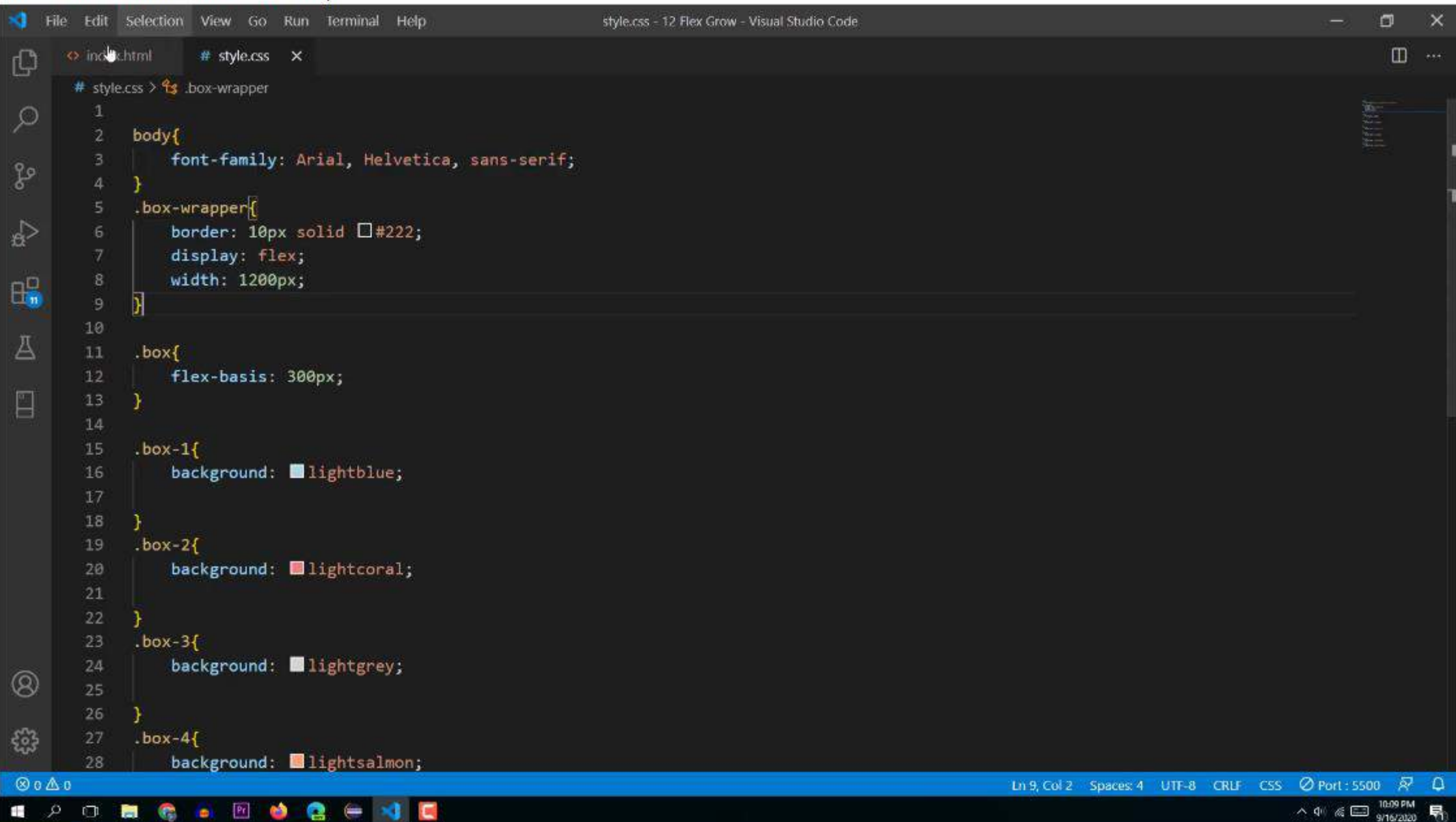
padding: -

1865 x 500

1



# Flex Grow



```
# style.css > .box-wrapper
1
2 body{
3     font-family: Arial, Helvetica, sans-serif;
4 }
5 .box-wrapper{
6     border: 10px solid #222;
7     display: flex;
8     width: 1200px;
9 }
10
11 .box{
12     flex-basis: 300px;
13 }
14
15 .box-1{
16     background: lightblue;
17 }
18
19 .box-2{
20     background: lightcoral;
21 }
22
23 .box-3{
24     background: lightgrey;
25 }
26
27 .box-4{
28     background: lightsalmon;
```

Ln 9, Col 2 Spaces: 4 UTF-8 CRLF CSS Port: 5500

HTML and CSS Tutorial in Hindi | x FLEXBOX TUTORIAL

127.0.0.1:5500/index.html

Box 1  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.

Box 2  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.

Box 3  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.

Elements Console Sources Network Performance Memory Application Security Lighthouse

```
<!DOCTYPE html>
<html lang="en">
  <head>
  </head>
  <body>
    <div class="box-wrapper">
      <!-- Code injected by live-server -->
      <script type="text/javascript">
      </script>
    </body>
  </html>
```

Styles Computed Event Listeners DOM Breakpoints Properties Accessibility

Filter :hov .cls + user agent stylesheet

```
html {
  display: block;
}
```

margin  
border  
padding  
1920 x 173.812

html body div.box-wrapper

```
File Edit Selection View Go Run Terminal Help
style.css - 12 Flex Grow - Visual Studio Code

index.html # style.css x
# style.css > .box
5 .box-wrapper {
6     border: 10px solid #222;
7     display: flex;
8     width: 1200px;
9 }
10
11 .box{
12     flex-basis: 300px;
13     flex-grow: 1;
14 }
15
16 .box-1{
17     background: lightblue;
18 }
19
20 .box-2{
21     background: lightcoral;
22 }
23
24 .box-3{
25     background: lightgrey;
26 }
27
28 .box-4{
29     background: lightsalmon;
30 }
31
32 .box-5{
33     background: lightslategray;
```

The screenshot displays a web browser window with a flexbox layout. The browser's address bar shows the URL `127.0.0.1:5500/index.html`. The page content consists of three boxes, each with a title and a paragraph of Lorem Ipsum text:

- Box 1** (light blue background): Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.
- Box 2** (red background): Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.
- Box 3** (gray background): Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.

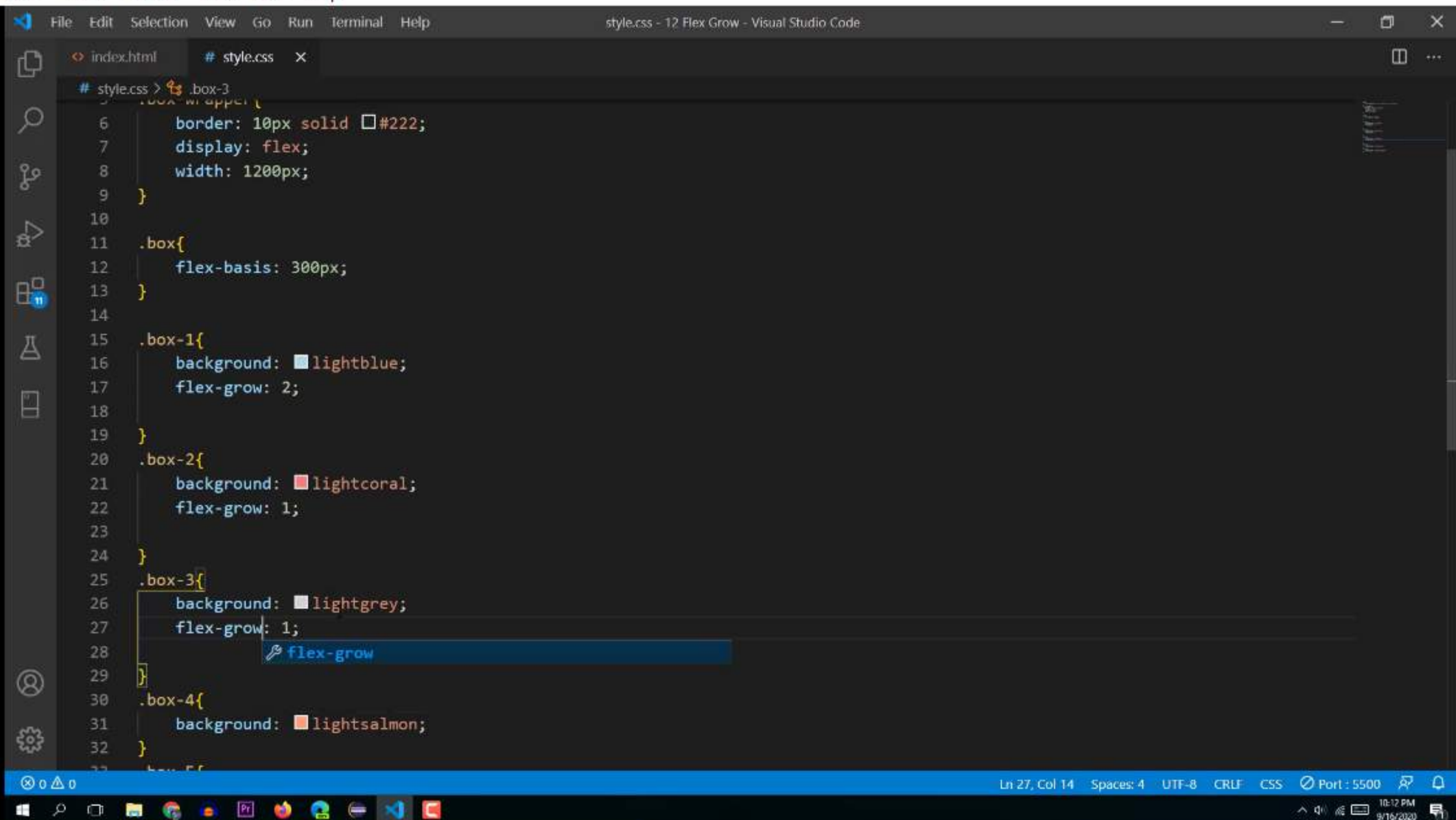
The Chrome DevTools interface is open at the bottom. The **Elements** panel shows the following HTML structure:

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body>
    <div class="box-wrapper">
      <div class="box box-1">...</div>
      <div class="box box-2">...</div>
      <div class="box box-3">...</div>
      <!-- <div class="box box-4">
        <h2>Box 4</h2>
        <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.</p>
      </div>
      <div class="box box-5">
        <h2>Box 5</h2>
        <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.</p>
      </div>
    </div>
  </body>
</html>
```

The **Styles** panel shows the default font-family for the `body` element:

```
body {
  font-family: Arial, Helvetica, sans-serif;
}
```

A box model diagram is visible in the Styles panel, showing the dimensions of the selected element: width 400px and height 119.812px.



```
# style.css > .box-3
5  .box-3 {
6      border: 10px solid #222;
7      display: flex;
8      width: 1200px;
9  }
10
11  .box {
12      flex-basis: 300px;
13  }
14
15  .box-1 {
16      background: lightblue;
17      flex-grow: 2;
18  }
19  }
20  .box-2 {
21      background: lightcoral;
22      flex-grow: 1;
23  }
24  }
25  .box-3 {
26      background: lightgrey;
27      flex-grow: 1;
28  }
29  }
30  .box-4 {
31      background: lightsalmon;
32  }
33  .box-5 {
```



The screenshot displays a web browser window with a flexbox layout. The layout consists of three boxes, each with a different background color and a title: Box 1 (light blue), Box 2 (red), and Box 3 (gray). Each box contains a paragraph of Lorem Ipsum text. The browser's address bar shows the URL `127.0.0.1:5500/index.html`. Below the browser window, the Chrome DevTools interface is visible, showing the Elements panel with the HTML structure of the page. The selected element is `<div class="box box-1">...</div>`. The Styles panel on the right shows the default font-family of the body element: `font-family: Arial, Helvetica, sans-serif;`. A box model diagram is also visible in the Styles panel, showing the margin, border, padding, and content area with dimensions `450 x 119.812`.

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body>
    <div class="box-wrapper">
      <div class="box box-1">...</div>
      <div class="box box-2">...</div>
      <div class="box box-3">...</div>
      <!-- <div class="box box-4">
        <h2>Box 4</h2>
        <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.</p>
      </div>
      <div class="box box-5">
        <h2>Box 5</h2>
        <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eaque iusto veritatis odit voluptatum, ipsa eos.</p>
      </div>
    </div>
  </body>
</html>
```