

HTML and CSS



What we did:

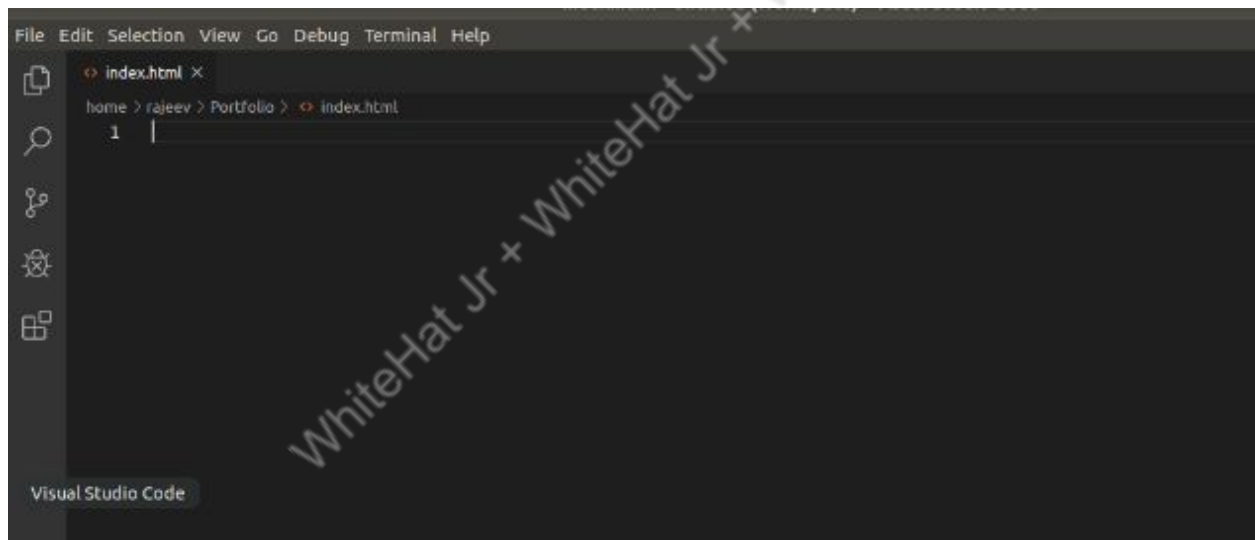
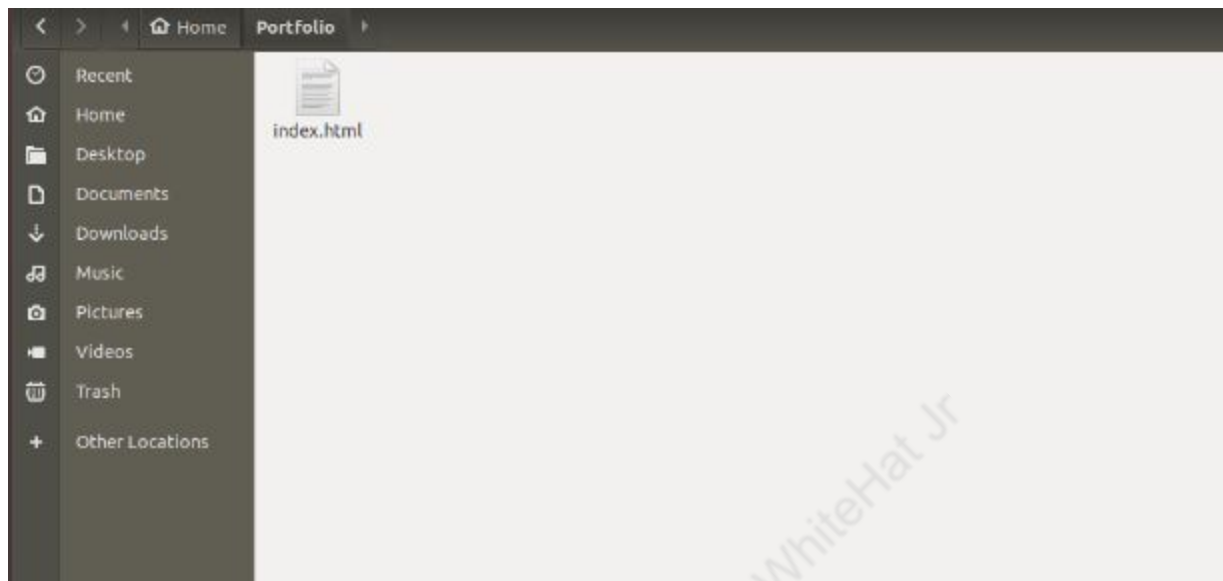
- Created a basic portfolio page layout using the HTML tags.
- Add some style to the tags using CSS selectors.

How we did it:

To build apps, used a modern framework to create native mobile apps - called React Native. React Native builds on the HTML, CSS and Javascript used for the web to create modern mobile apps. We have already learned Javascript. We learned how to use HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets).

We created a folder, 'Portfolio' where we created our portfolio page. Inside the folder, we created an empty file and name it as 'index.html'

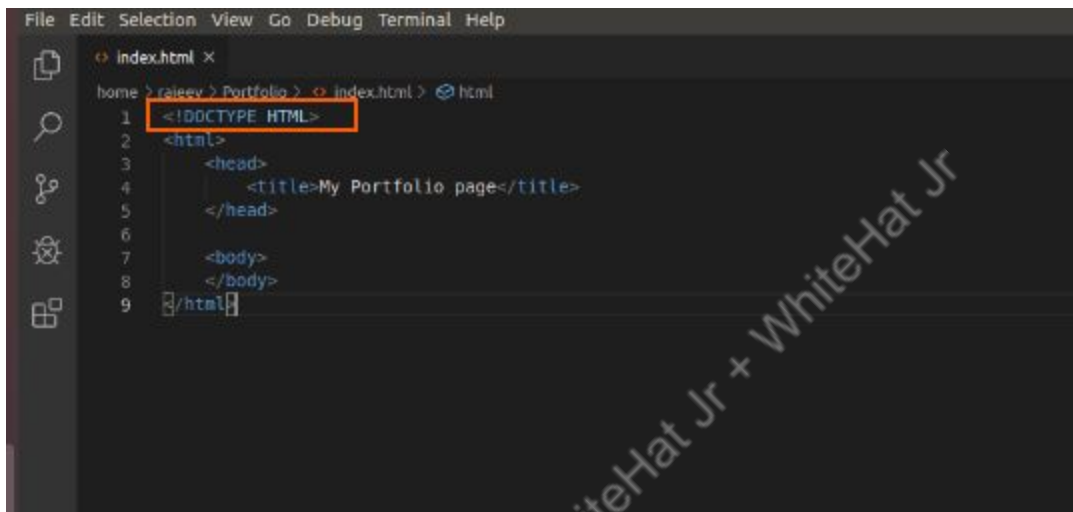
We opened the 'index.html' file in Visual code studio where we can write HTML.



In markdown, we used symbols to tell how we wanted to format text content. In HTML, we used tags to tell the computer how we want to display the content.

First, we write the tag `<!DOCTYPE HTML>` to tell the computer that this is going to be an HTML page. This informs the browser that it is going to read an HTML page. This is a must-do for all HTML pages.

All our HTML content comes inside the opening `<html>` tag and closing `</html>` tag.



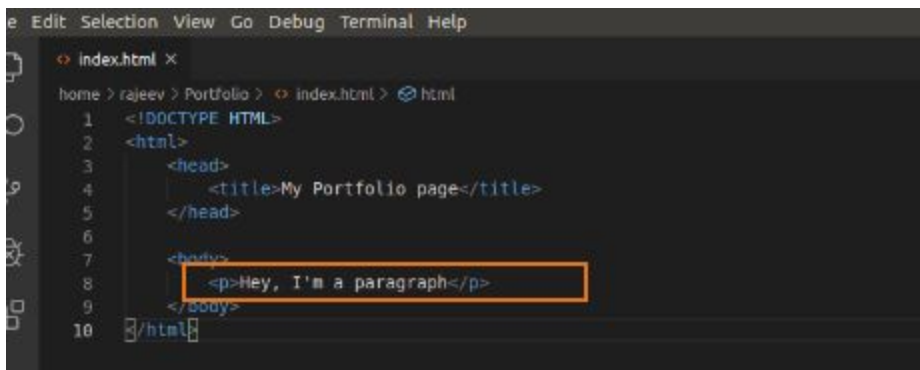
```
File Edit Selection View Go Debug Terminal Help
index.html x
home > rajeev > Portfolio > index.html > html
1 <!DOCTYPE HTML>
2 <html>
3   <head>
4     <title>My Portfolio page</title>
5   </head>
6   <body>
7   </body>
8 </html>
```

Inside `<html>` tags, we can have `<head>` tags and `<body>` tags.

Inside `<head>` tags, we store information about the page. Inside `<body>` tags we write content which is displayed on the web page.

Indentations are also followed while writing HTML to keep everything organized.

For example, we can write the title of our page inside `<head>` tags. It is displayed at the top of the browser when you open the web page. To tell the computer that it is a title, we enclose it under `<title>` tags.



```
e Edit Selection View Go Debug Terminal Help
index.html x
home > rajeev > Portfolio > index.html > html
1 <!DOCTYPE HTML>
2 <html>
3   <head>
4     <title>My Portfolio page</title>
5   </head>
6   <body>
7     <p>Hey, I'm a paragraph</p>
8   </body>
9 </html>
```



We used `<h1>` tags to create a BIG header.

`<h2>`, `<h3>`, `<h4>` tags could be used to create SMALLER headers.

```

Index.html X
home > rajeev > Portfolio > index.html > html
1  <!DOCTYPE HTML>
2  <html>
3    <head>
4      <title>My Portfolio page</title>
5    </head>
6
7    <body>
8      <h1>Student Name</h1>
9    </body>
10 </html>
  
```

Our webpage needs to have some navigation menu as well which can lead to other webpages. These are called hyperlinks.

We used `<a>` tag to create hyperlinks— Projects and About Me.

```

Index.html X
home > rajeev > Portfolio > index.html > html
1  <!DOCTYPE HTML>
2  <html>
3    <head>
4      <title>My Portfolio page</title>
5    </head>
6
7    <body>
8      <h1>Student Name</h1>
9      <a>Projects</a>
10     <a>About Me</a>
11   </body>
12 </html>
  
```

We need to point these tags to the respective pages. This is done using 'attributes'. Each tag has some attributes.

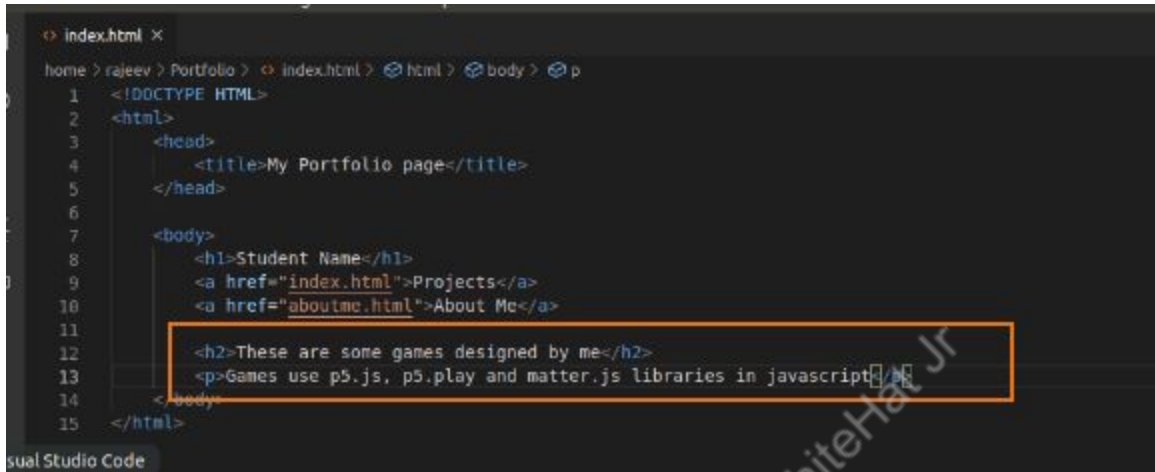
`<a>` tag has an attribute called 'href' (hypertext reference) which is used to point the tag to other pages.

```
index.html x
home > rajeev > Portfolio > index.html > html
1 <!DOCTYPE HTML>
2 <html>
3   <head>
4     <title>My Portfolio page</title>
5   </head>
6
7   <body>
8     <h1>Student Name</h1>
9     <a href="index.html">Projects</a>
10    <a href="aboutme.html">About Me</a>
11  </body>
12 </html>
```



You can create a sub-heading using `<h2>` tags (remember smaller than h1 tags).

You can create a description using `<p>` tag which is used to write text in a paragraph.



```

index.html x
home > rajeev > Portfolio > index.html > html > body > p
1 <!DOCTYPE HTML>
2 <html>
3   <head>
4     <title>My Portfolio page</title>
5   </head>
6
7   <body>
8     <h1>Student Name</h1>
9     <a href="index.html">Projects</a>
10    <a href="aboutme.html">About Me</a>
11
12    <h2>These are some games designed by me</h2>
13    <p>Games use p5.js, p5.play and matter.js libraries in javascript</p>
14  </body>
15 </html>
Visual Studio Code
  
```



We added images of the games you have created.

We used `` tag to add images. `` is a self-closing tag - we do not need opening and closing tags for ``.

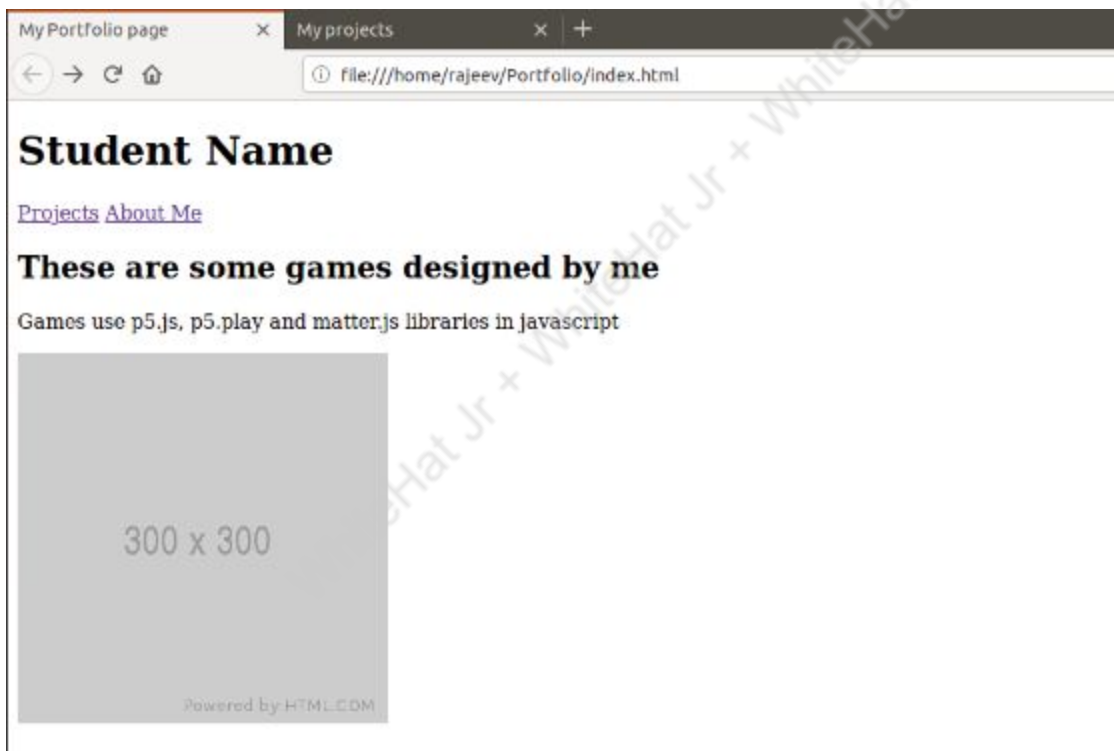
The 'src' (source) attribute is used to give a link to the image. You can add the images of your games in the same folder and use it in the src attribute.

We also want our images to be hyperlinks - that means clicking them should take them to our games hosted on GitHub or p5!

Tags can be enclosed inside each other. This means the `` tag can be enclosed inside `<a>` tag.

```

index.html x
home > rajeev > Portfolio > index.html > html > body > a
1  <!DOCTYPE HTML>
2  <html>
3    <head>
4      <title>My Portfolio page</title>
5    </head>
6
7    <body>
8      <h1>Student Name</h1>
9      <a href="index.html">Projects</a>
10     <a href="aboutme.html">About Me</a>
11
12     <h2>These are some games designed by me</h2>
13     <p>Games use p5.js, p5.play and matter.js libraries in javascript</p>
14
15     <a href = "https://editor.p5js.org/whitehatjr/present/eP3rHCACH"></a>
16
17   </body>
18 </html>
  
```

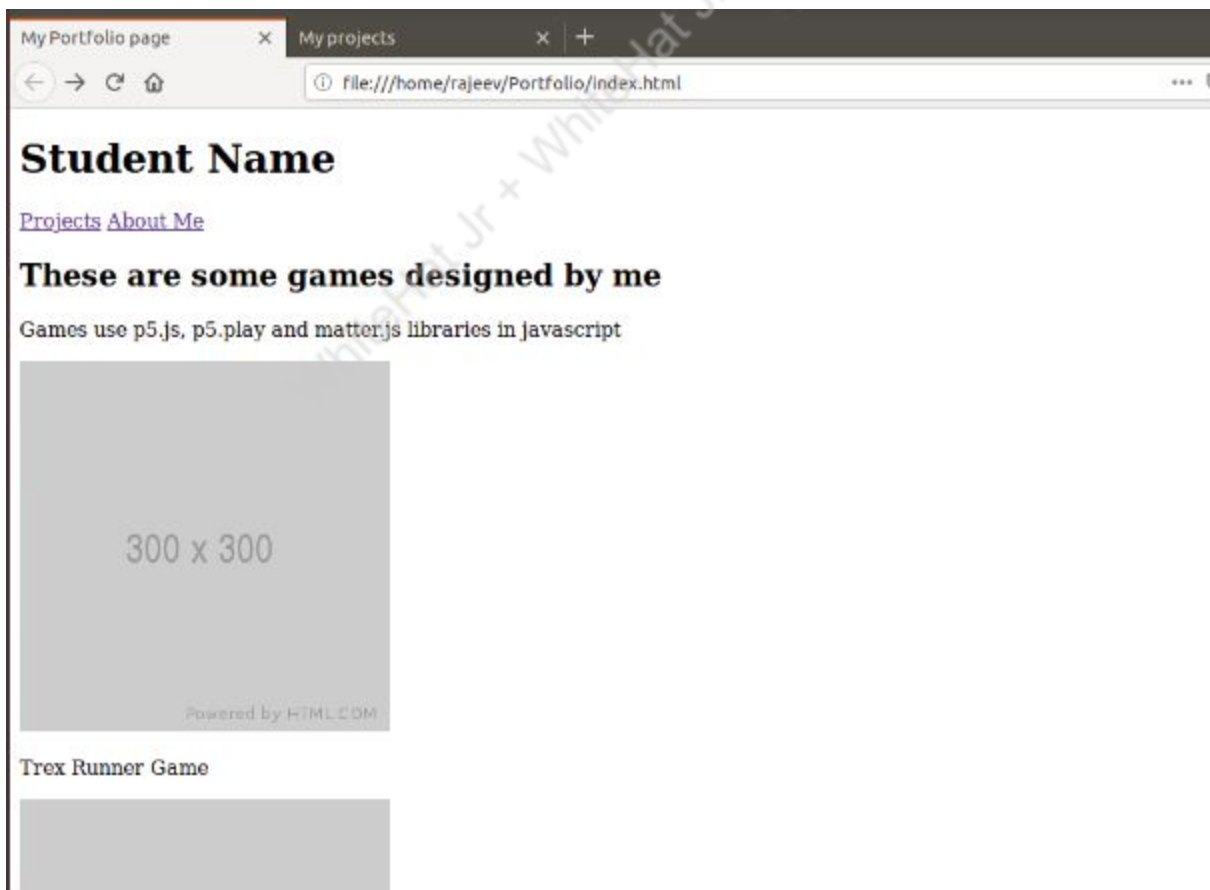


We added a `<p>` tag below to add a name for the game. You can also add multiple images.

```

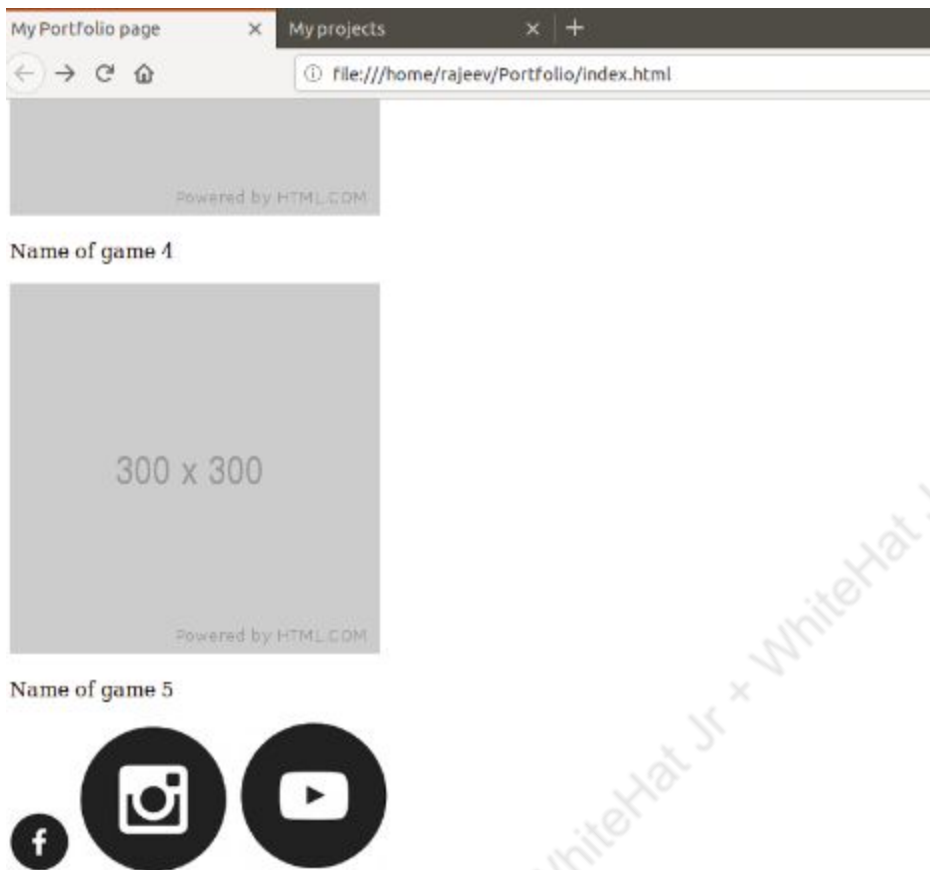
index.html x
home > rajeev > Portfolio > index.html > html > body > p
1  <!DOCTYPE HTML>
2  <html>
3    <head>
4      <title>My Portfolio page</title>
5    </head>
6
7    <body>
8      <h1>Student Name</h1>
9      <a href="index.html">Projects</a>
10     <a href="aboutme.html">About Me</a>
11
12     <h2>These are some games designed by me</h2>
13     <p>Games use p5.js, p5.play and matter.js libraries in javascript</p>
14
15     <a href = "https://editor.p5js.org/whitehatjr/present/eP3rHCACM"></a>
16     <p>Trex Runner Game</p>
17
18     <a href = "#"></a>
19     <p>Name of game 2</p>
20
21     <a href = "#"></a>
22     <p>Name of game 3</p>
23
24     <a href = "#"></a>
25     <p>Name of game 4</p>
26
27     <a href = "#"></a>
28     <p>Name of game 5</p>
29
30   </body>
31 </html>

```

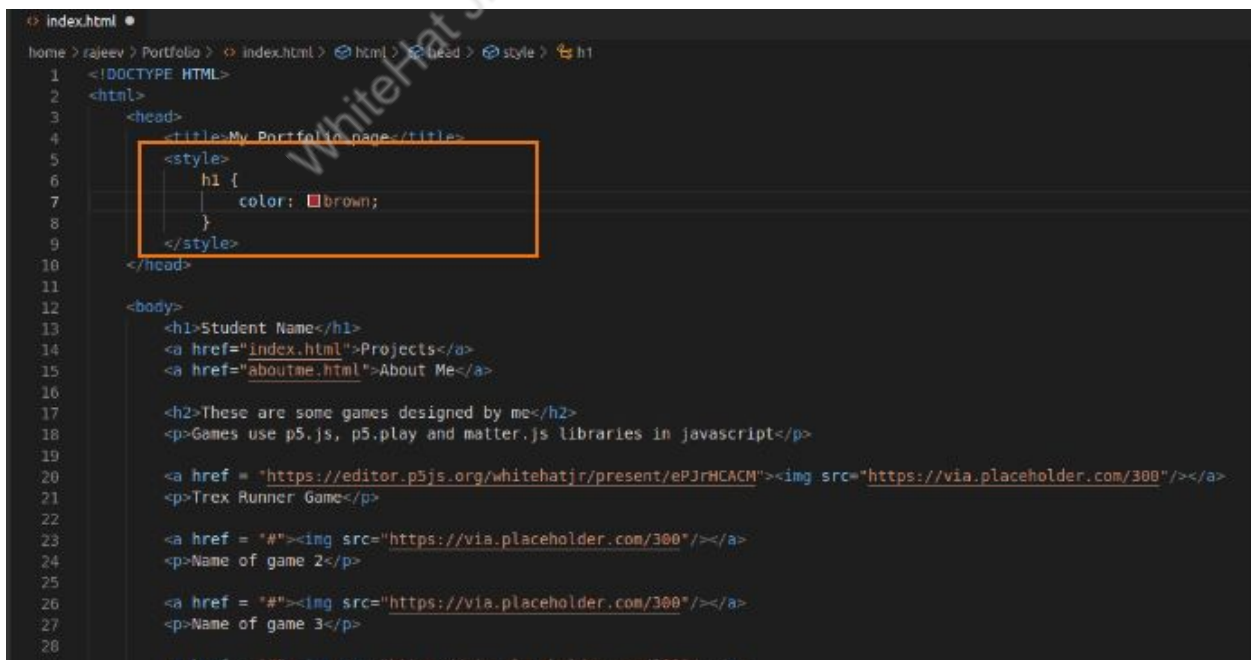


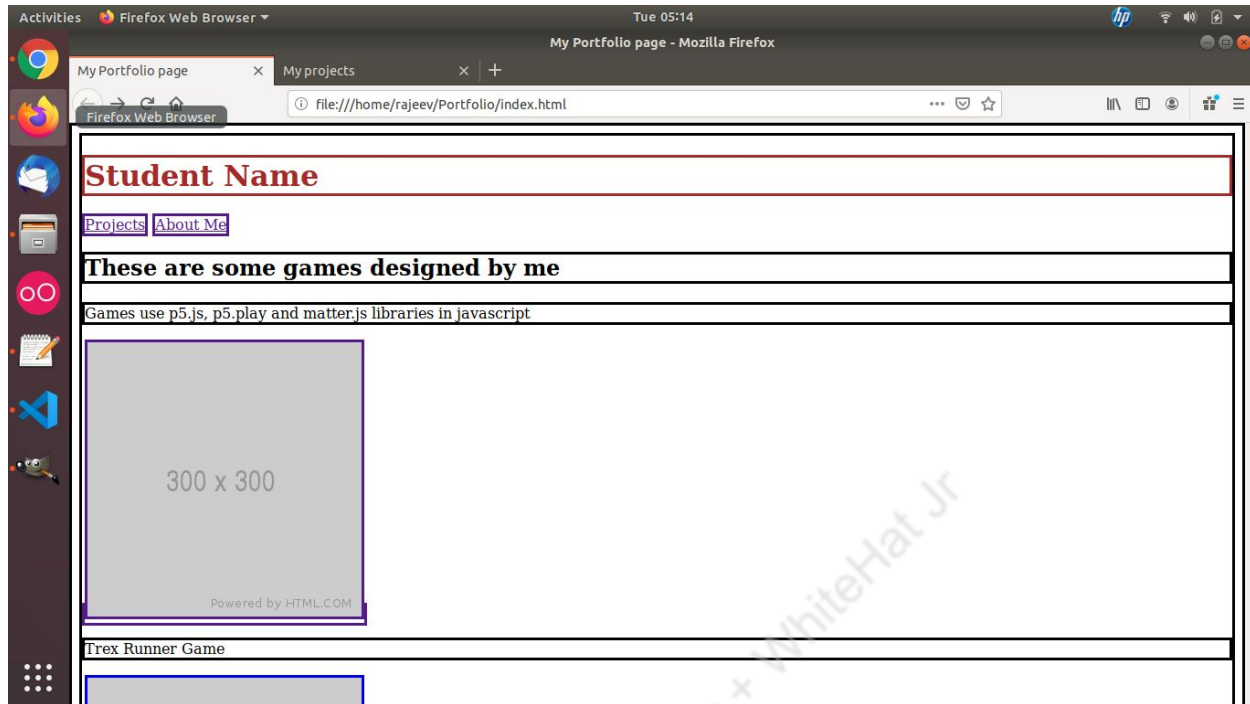
If we want people visiting our page to find us through our social media pages including - Facebook, Youtube, Instagram, we can add these icons at the end of the web page and link them to our social media pages. `` tag also has width and height attributes which can be used to set the width and height of the images.

```
index.html X
home > rajeev > Portfolio > index.html > html > body > a > img
2  <html>
3  <head>
4    <title>My Portfolio page</title>
5  </head>
6
7  <body>
8    <h1>Student Name</h1>
9    <a href="index.html">Projects</a>
10   <a href="aboutme.html">About Me</a>
11
12   <h2>These are some games designed by me</h2>
13   <p>Games use p5.js, p5.play and matter.js libraries in javascript</p>
14
15   <a href = "https://editor.p5js.org/whitehatjr/present/eP3rHCACM"></a>
16   <p>Trex Runner Game</p>
17
18   <a href = "#"></a>
19   <p>Name of game 2</p>
20
21   <a href = "#"></a>
22   <p>Name of game 3</p>
23
24   <a href = "#"></a>
25   <p>Name of game 4</p>
26
27   <a href = "#"></a>
28   <p>Name of game 5</p>
29
30   <a href="#"></a>
31   <a href="#"></a>
32   <a href="#"></a>
33
```

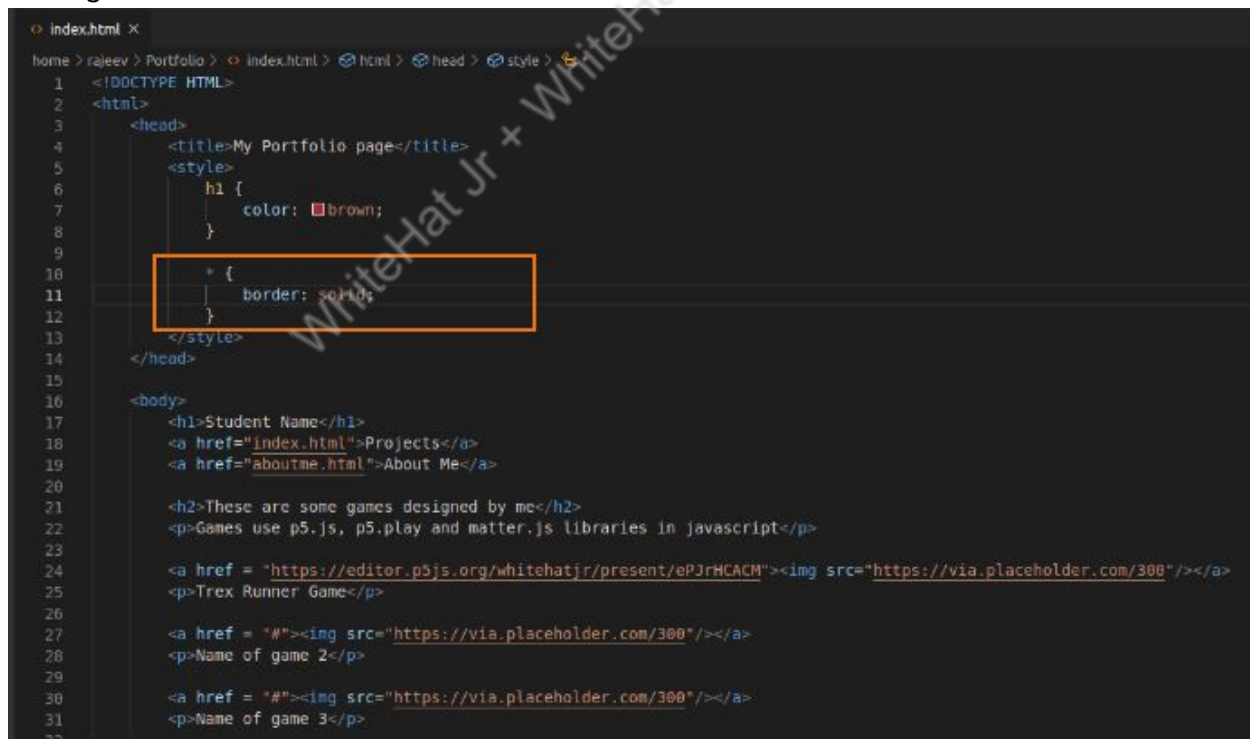


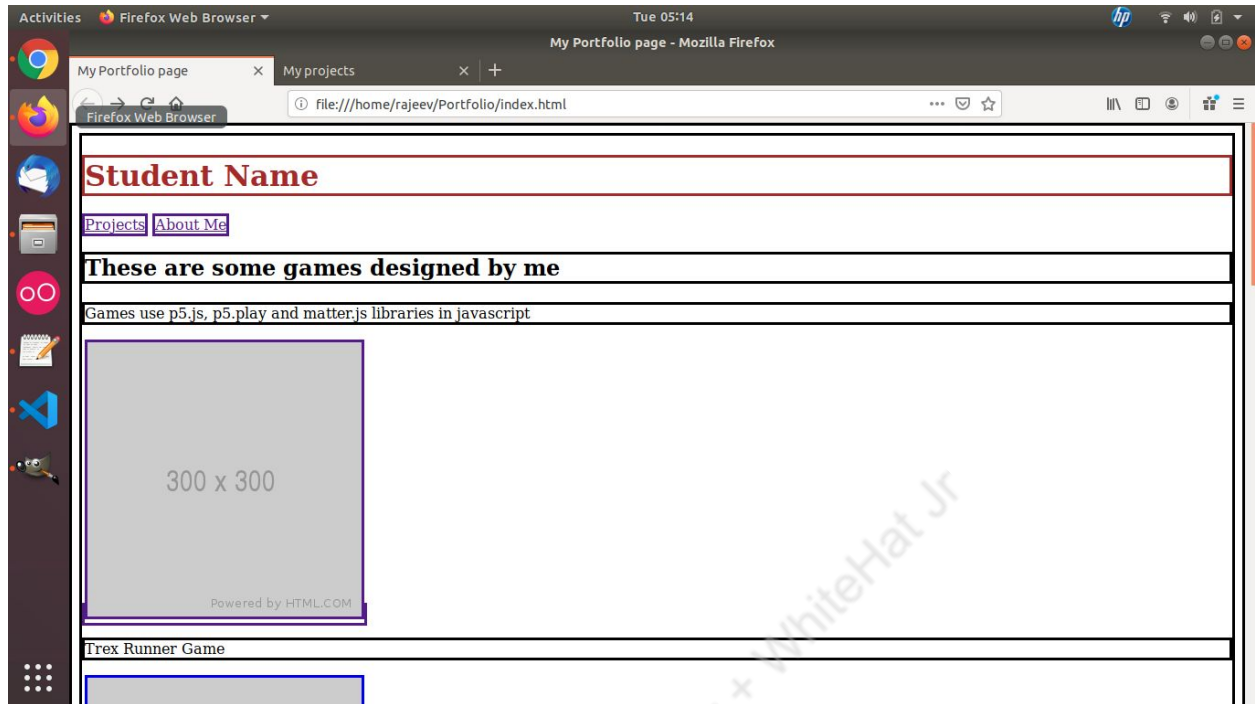
Styling the webpage using <style> tags.





Adding a border:



**What's next?:**

In the next class, you will learn about using flexboxes and other advanced concepts of styling in the next class.