

MODULE –6 (BOOTSTRAP BASIC & ADVANCED)

Q1. What are the advantages of Bootstrap?

Ans:-

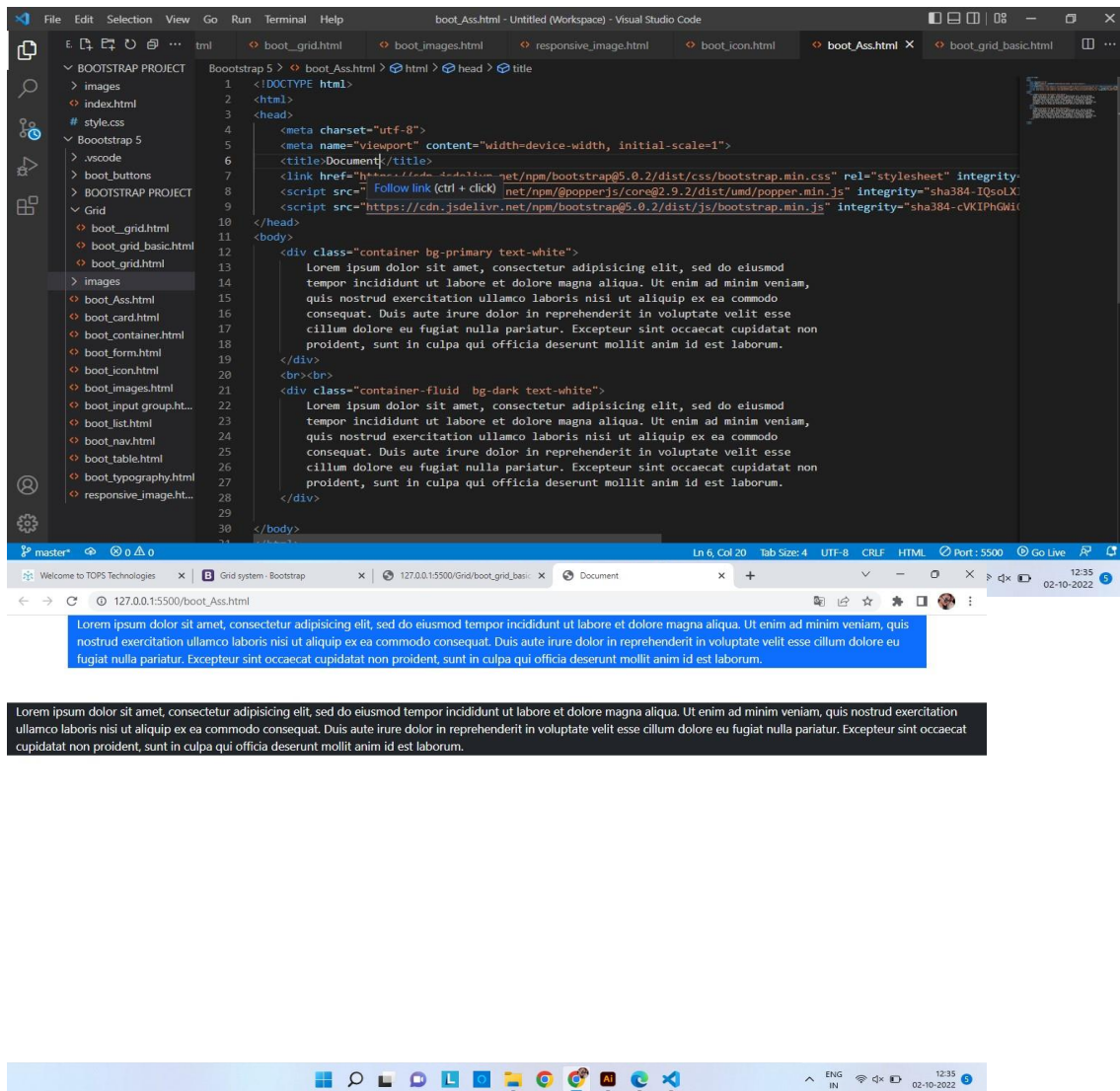
Advantages of Bootstrap:

- **Easy to use:** Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- **Responsive features:** Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- **Mobile-first approach:** In Bootstrap 3, mobile-first styles are part of the subcore framework.

Q2. What is a Bootstrap Container, and how does it work?

Ans:-

In Bootstrap, container is **used to set the content's margins dealing with the responsive behaviors of your layout**. It contains the row elements and the row elements are the container of columns (known as grid system). The container class is used to create boxed content.



Q3. What are the default Bootstrap text settings?

Ans:-

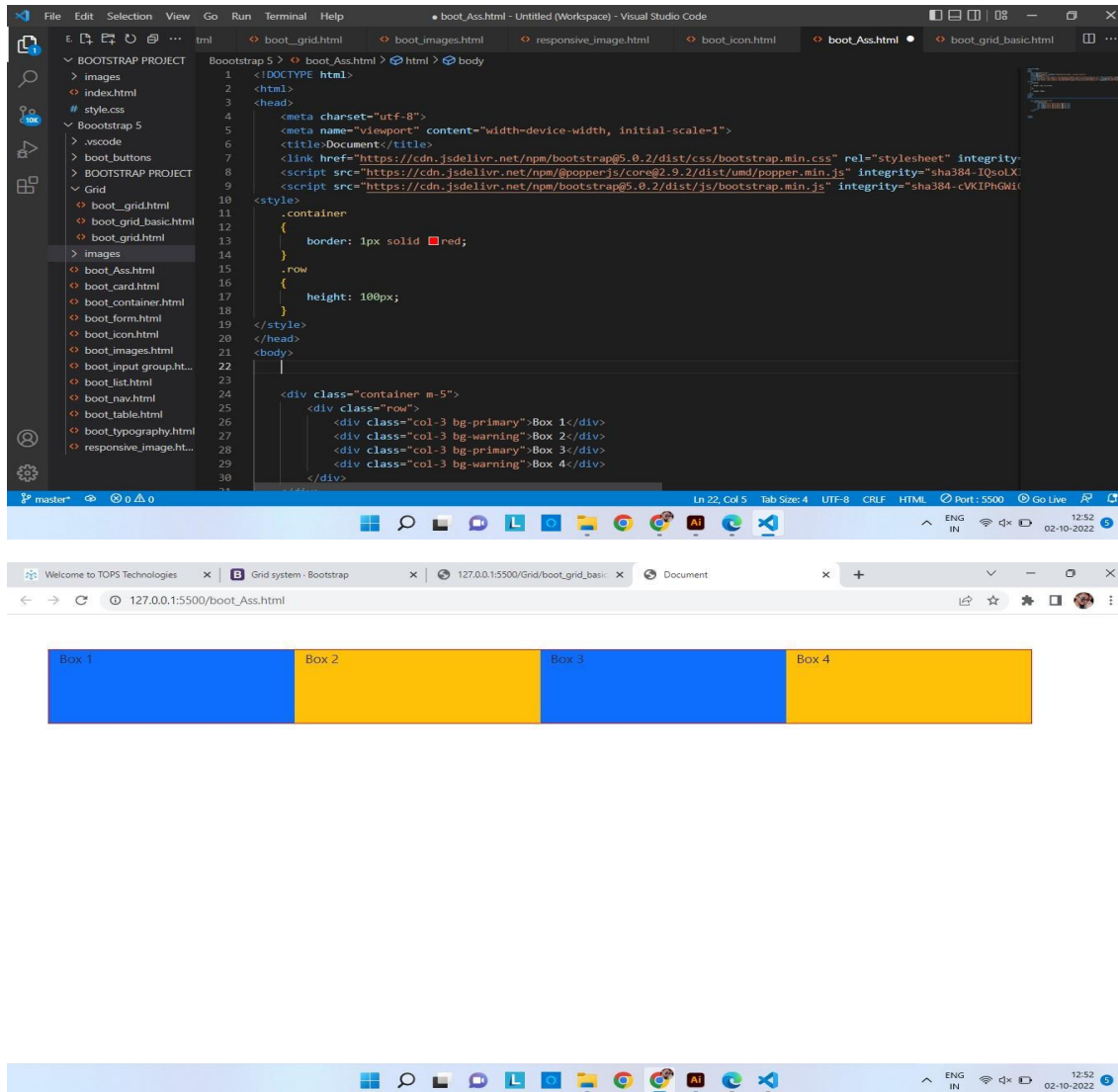
Bootstrap 4 Default Settings

Bootstrap 4 uses a **default font-size of 16px**, and its **line-height is 1.5**. The default font-family is "Helvetica Neue", Helvetica, Arial, sans-serif. In addition, all `<p>` elements have `margin-top: 0` and `margin-bottom: 1rem` (16px by default).

Q4. What do you know about the Bootstrap Grid System?

Ans:-

Bootstrap's grid system **uses a series of containers, rows, and columns to layout and align content.** It's built with flexbox and is fully responsive. Below is an example and an indepth look at how the grid comes together.



Q5. What is the difference between Bootstrap 4 and Bootstrap 5

Ans:-

Bootstrap 4 uses Jekyll software. Bootstrap 5 uses Hugo software as it is fast static site generator.

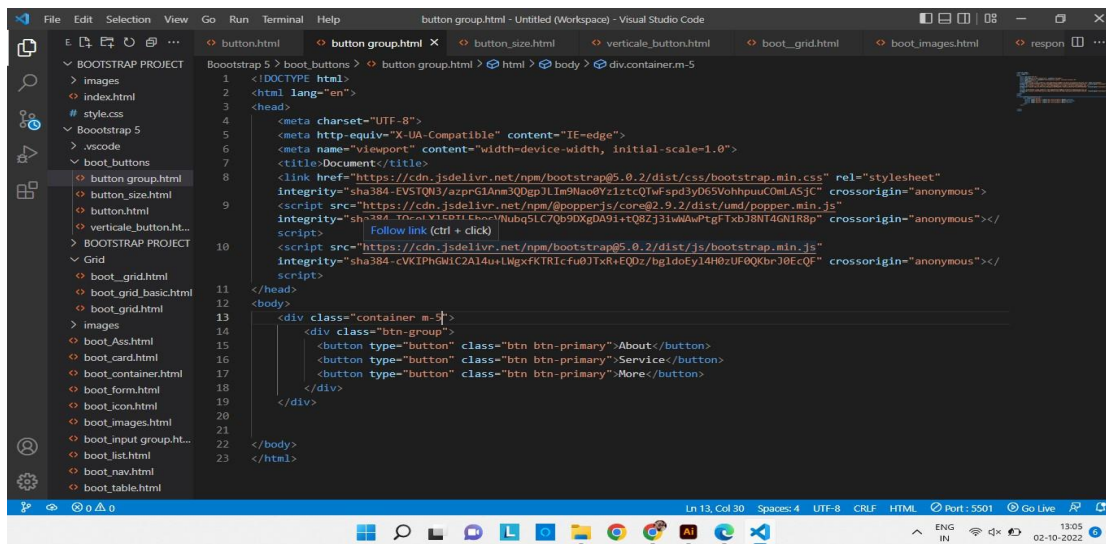
this makes easier to implement vertical designs, and the columns and rows can easily be implemented. the classes justify-center content can directly be used to align according to the requirement.

The main differences between Bootstrap 5 and Bootstrap 3 & 4, is that Bootstrap 5 has switched to JavaScript instead of jQuery.

Q6. What is a Button Group, and what is the class for a basic Button Group?

Ans:-

“Button Groups” in Bootstrap is a class of name “btn-group” which is used to create series of buttons in groups (without spaces) vertically or horizontally. This is the basic syntax of the button group class where each button has its own class of “btn”.



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"
9     integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztqcQTWfSpd3yD65VohhpuaC0mLASjC" crossorigin="anonymous">
10   <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"
11     integrity="sha384-IySoM7W4QfouqtwgAcYeeXLzUkWndq" crossorigin="anonymous"></script>
12   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js"
13     integrity="sha384-cVKIPhGMJC2A14u+LMgxKTRICfu0JTzR+EQDz/bg1doEyl4H0zUF0QKbrJ0EcQF" crossorigin="anonymous"></script>
14 </head>
15 <body>
16   <div class="container m-5">
17     <div class="btn-group">
18       <button type="button" class="btn btn-primary">About</button>
19       <button type="button" class="btn btn-primary">Service</button>
20       <button type="button" class="btn btn-primary">More</button>
21     </div>
22   </div>
23 </body>
24 </html>
```

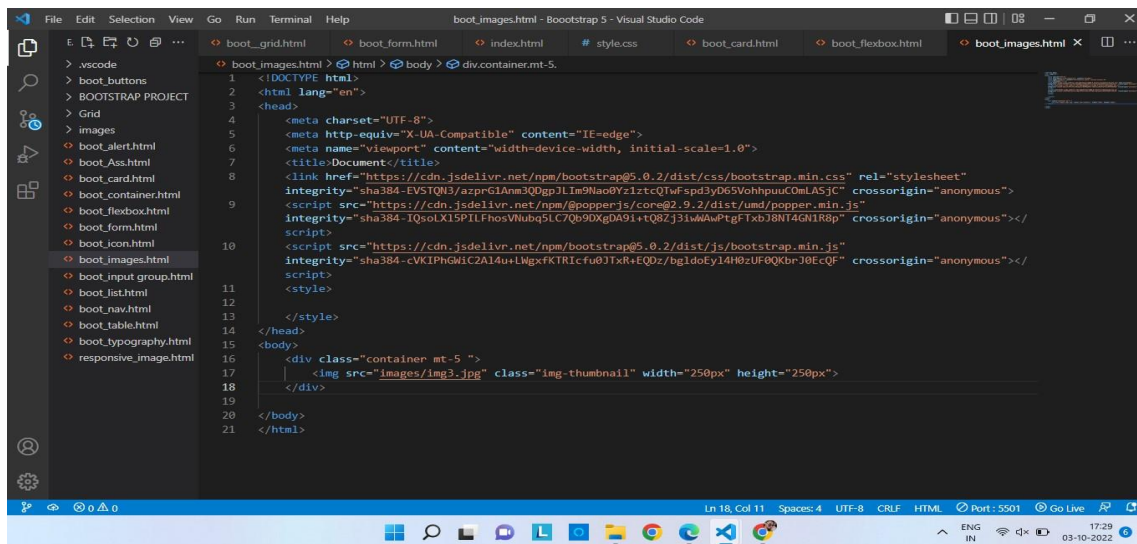


Q7. How can you use Bootstrap to make thumbnails?

Ans:-

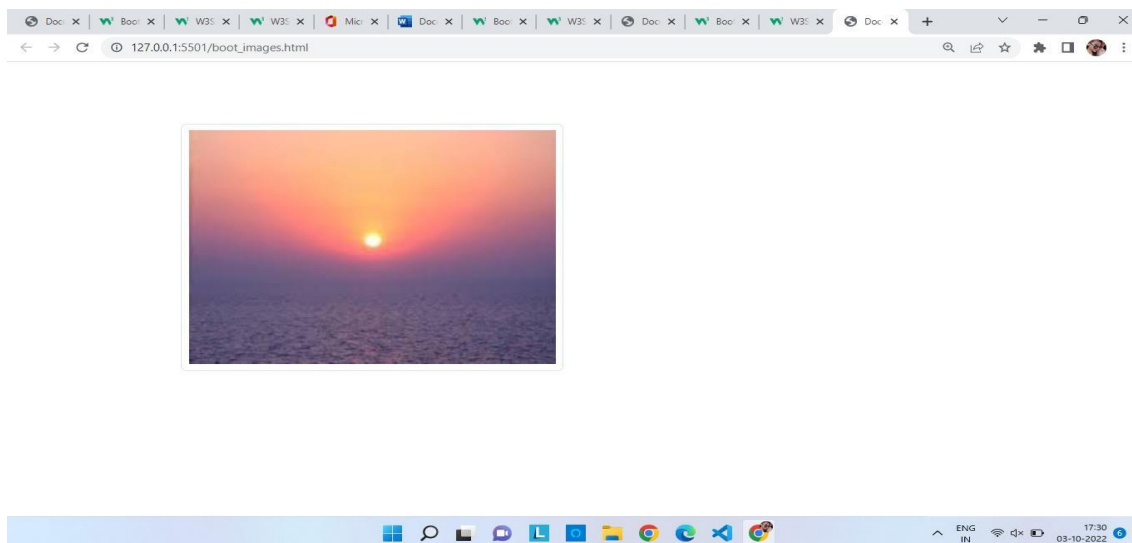
Bootstrap - Thumbnails

1. Add an `<a>` tag with the class of `.thumbnail` around an image.
2. This adds four pixels of padding and a gray border.
3. On hover, an animated glow outlines the image.



The screenshot shows the Visual Studio Code editor with the 'bootstrap_5' project open. The file explorer on the left lists various HTML files under the 'BOOTSTRAP PROJECT' and 'images' folders. The main editor displays the 'boot_images.html' file, which contains the following HTML code:

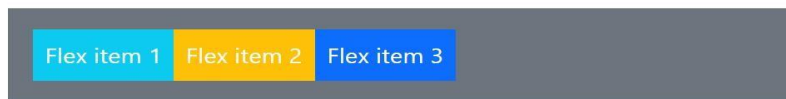
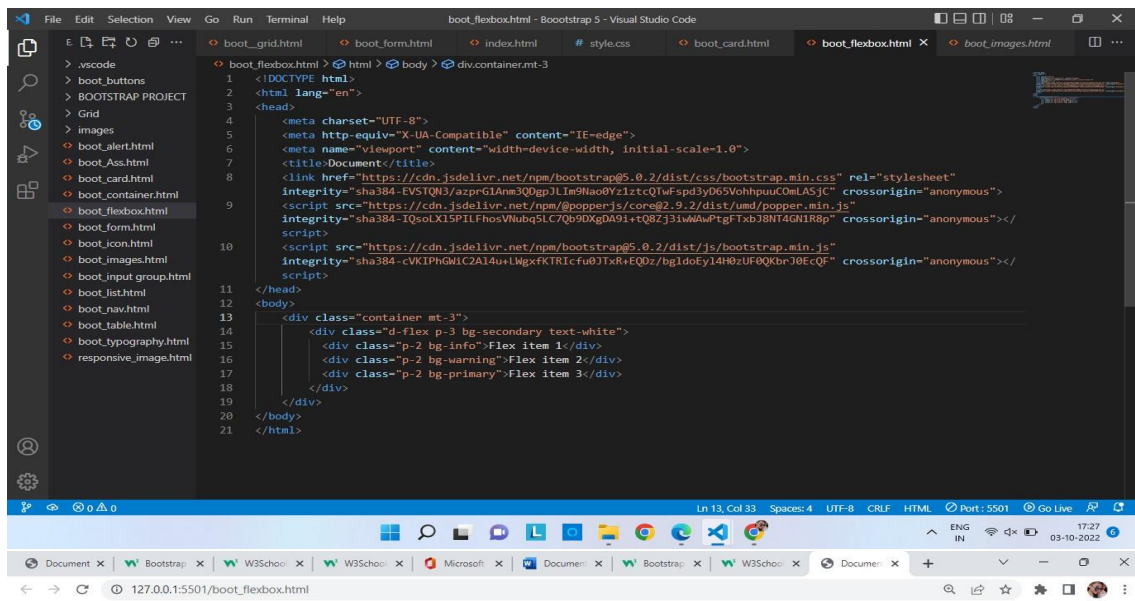
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"
9     integrity="sha384-EVSTQN3/azprG1Anm3QDppJLIm9Nao8Yz1ztCQTWfsd3yD65VohhpuuCOMLAsjC" crossorigin="anonymous">
10  <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"
11    integrity="sha384-IQsoLXl5PILFhosVNubq5LC7Qb9DXgDA91+tQ8Zf3IwAA6PgT8xJB8nT4GNIR8p" crossorigin="anonymous"></script>
12  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js"
13    integrity="sha384-cVKIPhGWiC2Al4u+LWgxfKTRicfu0JJT8rEEQzV8BdPgoSvO0y7rLgz+PO9AyWFR32" crossorigin="anonymous"></script>
14  <style>
15  </style>
16 </head>
17 <body>
18   <div class="container mt-5">
19     
20   </div>
21 </body>
22 </html>
```



Q8. In Bootstrap 4, what is flexbox?

Ans:-

Flexbox. The biggest difference between Bootstrap 3 and Bootstrap 4 is that Bootstrap 4 now uses flexbox, instead of floats, to handle the layout. The Flexible Box Layout Module, makes it easier to design flexible responsive layout structure without using float or positioning.



Q9. How can one create an alert in Bootstrap?

Ans:-

Here's how:

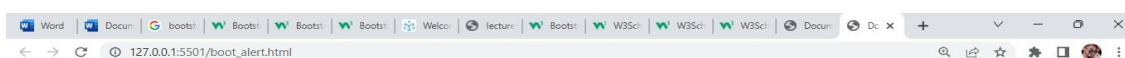
- Be sure you've loaded the alert plugin, or the compiled Bootstrap JavaScript.
- If you're building our JavaScript from source, it requires util.js. The compiled version includes this.

- Add a dismiss button and the `.alert-dismissible` class, which adds extra padding to the right of the alert and positions the `.close` button.
- On the dismiss button, add the `data-dismiss="alert"` attribute, which triggers the JavaScript functionality. Be sure to use the `<button>` element with it for proper behavior across all devices.
- To animate alerts when dismissing them, be sure to add the `.fade` and `.show` classes.

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-IQsoLXlqICMjw44DM0lCCnsoLwRTKqyg4g+3Og4p18tltNZ0nPY44ZYp15G+vLL=>
9   <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js" integrity="sha384-IQsoLXlqICMjw44DM0lCCnsoLwRTKqyg4g+3Og4p18tltNZ0nPY44ZYp15G+vLL=>
10  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js" integrity="sha384-cVKIPhGWiC2Al4u4ZVp1q4ZFGv4aFqbd4gEzRsQ6O6RdQdiLKo" crossorigin="anonymous"></script>
11 </head>
12 <body>
13   <div class="container">
14     <div class="alert alert-info">
15       <strong>Success!</strong> You should <a href="#" class="alert-link">read this message.</a>
16     </div>
17   </div>
18   <div class="container">
19     <div class="alert alert-success alert-dismissible">
20       <button type="button" class="btn-close" data-bs-dismiss="alert"></button>
21       <strong>Success!</strong> You should <a href="#" class="alert-link">read this message.</a>
22     </div>
23   </div>
24 </body>
25 </html>

```



Success! You should [read this message.](#)

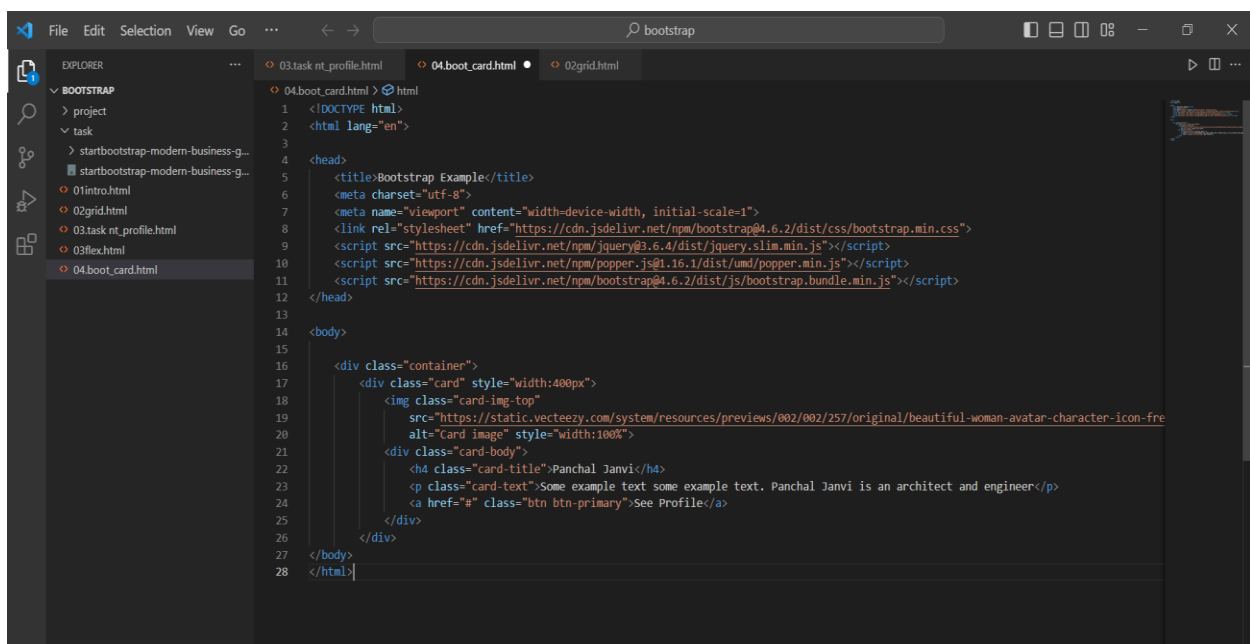
Success! You should [read this message.](#) ✕



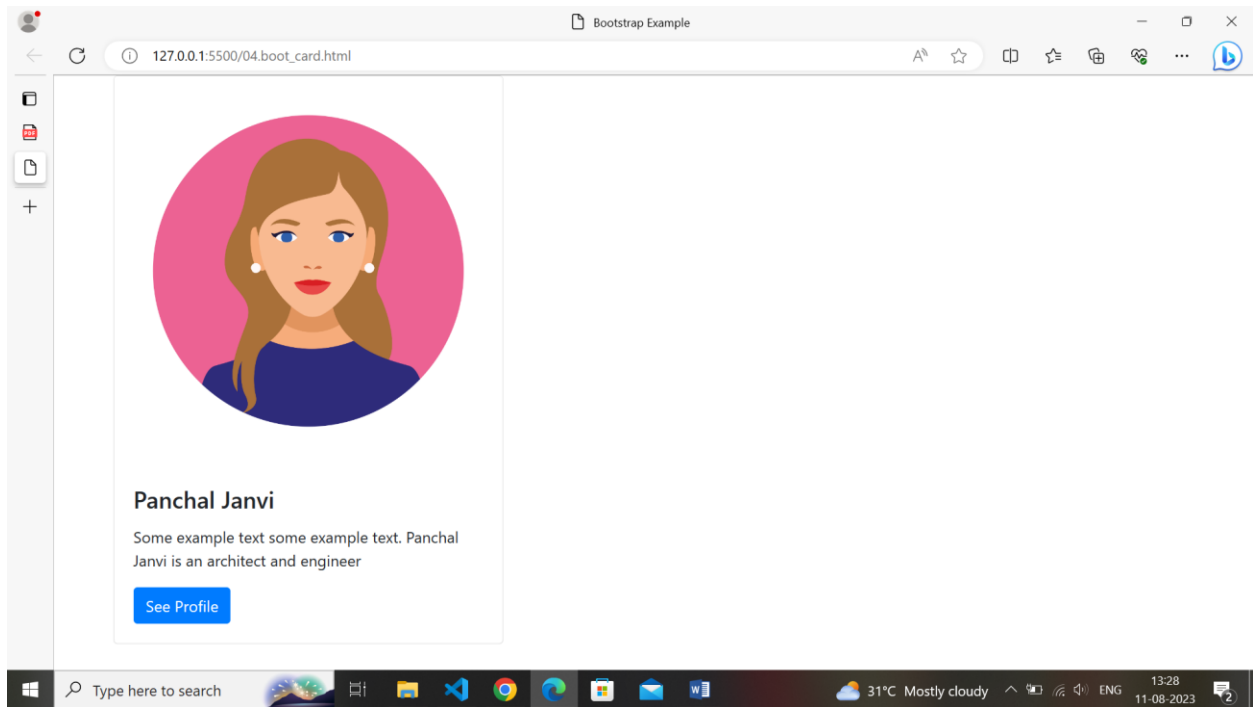
Q10. What is a bootstrap card and how would you create one?

Ans:-

A card is a **flexible and extensible content container**. It includes options for headers and footers, a wide variety of content, contextual background colors, and powerful display options. If you're familiar with Bootstrap 3, cards replace our old panels, wells, and thumbnails.



```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <title>Bootstrap Example</title>
6   <meta charset="utf-8">
7   <meta name="viewport" content="width=device-width, initial-scale=1">
8   <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
9   <script src="https://cdn.jsdelivr.net/npm/jquery@3.6.4/dist/jquery.slim.min.js"></script>
10  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
11  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
12 </head>
13
14 <body>
15
16   <div class="container">
17     <div class="card" style="width:400px">
18       
21       <div class="card-body">
22         <h4 class="card-title">Panchal Janvi</h4>
23         <p class="card-text">Some example text. Panchal Janvi is an architect and engineer</p>
24         <a href="#" class="btn btn-primary">See Profile</a>
25       </div>
26     </div>
27   </body>
28 </html>
```



SUBMITTED BY :-
JANVI PANCHAL