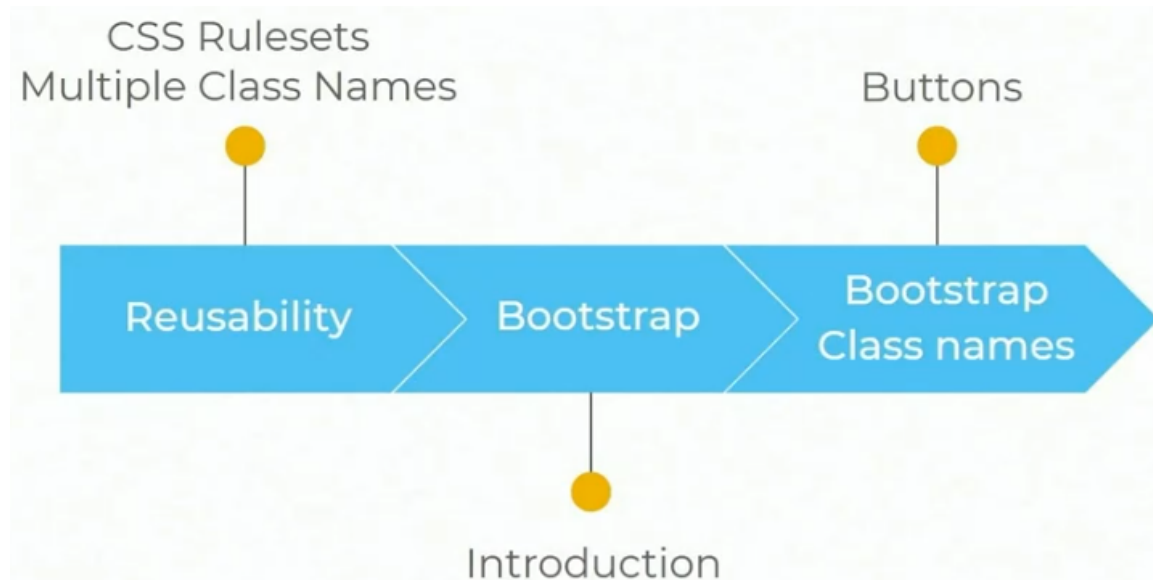


## Topic 3 : Bootstrap ¶

In [1]:

```
from IPython.display import Image  
Image("E:/code/frontend/img/html13.png")
```

Out[1]:



### 1. Reusability of CSS Rulesets

- If we want the same style for multiple HTML elements, we can write the CSS Ruleset once and use it for different HTML elements.

### 2. Multiple class names as an HTML attribute value

- We can provide multiple class names separated by space as a value to the HTML class attribute.
- Syntax: tag class = "name1 name2 name3 name4 ..." >Content</tag
- HTML attribute value: name1 name2 name3 name4 ...
- class names: name1, name2, name3, and name4

In [2]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html14.png")
```

Out[2]:



```
> <> pg3_button_reusability.html > html
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" type="text/css" href="pg3_style.css"/>
</head>
<body>
<button class="button">Get Started</button>...
<button class="button">Visit Now</button>...

<button class="button button-green">Get Started</button>...
<button class="button button-orange">Visit Now</button>...
</body>
</html>

# pg3_style.css > ...
.button{
height: 36px;
width: 138px;
background-color: #25b1cc;
color: white;
border-radius: 25px;
border-width: 0px;
}

.button-green{
background-color: #8cc63f;
}

.button-orange{
background-color: orange;
}
```

### 3. Bootstrap

- Bootstrap is a large collection of predefined reusable Code Snippets written in HTML, CSS, and Javascript.
- The Code Snippets include Buttons, Cards, Carousels, etc.

#### 3.1 How to use Bootstrap?

- To use the Code Snippets provided by Bootstrap, we need to add the below piece of code within the HTML head element. We call it BootstrapCDN.

In [3]:

```
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpsL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous"/>

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-9/reFTGAW83EW2RDu2S0VKAizap3H66lZ81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-B4gt1jrGC7Jh4AgTPSdUt0Bvf08shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>
```

File "<ipython-input-3-d7c0a7ded2bb>", line 1

```
<link rel="stylesheet"
```

^

**SyntaxError:** invalid syntax

## 3.2 Predefined Styles in Bootstrap

### 3.2.1 Button

- The Bootstrap class name btn is used to style the HTML button element.

In [4]:

```
<button class="btn">Submit</button>
```

```
File "<ipython-input-4-32a41358681c>", line 1
  <button class="btn">Submit</button>
  ^
```

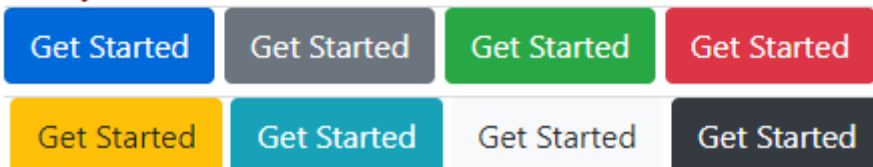
**SyntaxError:** invalid syntax

In [5]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html15.png")
```

Out[5]:

```
<body>
....<button class="btn btn-primary">Get Started</button>
....<button class="btn btn-secondary">Get Started</button>
....<button class="btn btn-success">Get Started</button>
....<button class="btn btn-danger">Get Started</button>
....<button class="btn btn-warning">Get Started</button>
....<button class="btn btn-info">Get Started</button>
....<button class="btn btn-light">Get Started</button>
....<button class="btn btn-dark">Get Started</button>
</body>
```



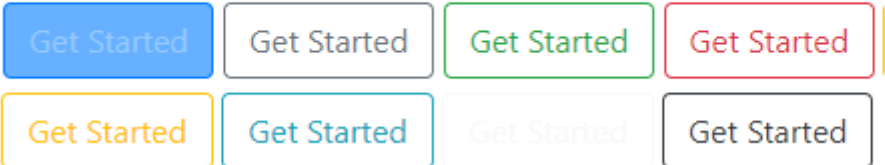
- Bootstrap provides us with different types of buttons. One of them is outline buttons, which don't have a background color.
- To add the outline buttons in our HTML document, just replace btn in the above class names with the btn-outline.
- To achieve the different outline button styles, Bootstrap has the following class names:

In [6]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html16.png")
```

Out[6]:

```
<body>
... <button class="btn btn-outline-primary">Get Started</button>
... <button class="btn btn-outline-secondary">Get Started</button>
... <button class="btn btn-outline-success">Get Started</button>
... <button class="btn btn-outline-danger">Get Started</button>
... <button class="btn btn-outline-warning">Get Started</button>
... <button class="btn btn-outline-info">Get Started</button>
... <button class="btn btn-outline-light">Get Started</button>
... <button class="btn btn-outline-dark">Get Started</button>
</body>
```



### 3.2.2 Text colors

- To apply different colors to the text, Bootstrap has the following class names:

In [7]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html17.png")
```

Out[7]:

```
<body>
... <p class="text-primary">Tourism</p>
... <p class="text-secondary">Tourism</p>
... <p class="text-success">Tourism</p>
... <p class="text-danger">Tourism</p>
... <p class="text-warning">Tourism</p>
... <p class="text-info">Tourism</p>
... <p class="text-light">Tourism</p>
... <p class="text-dark">Tourism</p>
</body>
```



### 3.2.3 Text transform

- To apply different cases like upper case, lower case, etc. to the text, Bootstrap has the following class names:

In [8]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html19.png")
```

Out[8]:

|  |  |
|--|--|
| <pre>&lt;body&gt; ... &lt;p class="text-uppercase"&gt;Plan your TRIP.&lt;/p&gt; ... &lt;p class="text-capitalize"&gt;plan your trip.&lt;/p&gt; ... &lt;p class="text-lowercase"&gt;PLAN your TRIP.&lt;/p&gt; &lt;/body&gt;</pre> | <div>PLAN YOUR TRIP.</div> <div>Plan Your Trip.</div> <div>plan your trip.</div> |
|--|--|

### 3.2.4 Background colors

- To apply different background colors to an HTML element, Bootstrap has the following class names:

In [9]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html20.png")
```

Out[9]:

|  |   |
|--|---|
| <pre>&lt;body&gt; ... &lt;div class="bg-primary"&gt;&lt;p&gt;Tourism&lt;/p&gt;&lt;/div&gt; ... &lt;div class="bg-secondary"&gt;&lt;p&gt;Tourism&lt;/p&gt;&lt;/div&gt; ... &lt;div class="bg-success"&gt;&lt;p&gt;Tourism&lt;/p&gt;&lt;/div&gt; ... &lt;div class="bg-danger"&gt;&lt;p&gt;Tourism&lt;/p&gt;&lt;/div&gt; ... &lt;div class="bg-warning"&gt;&lt;p&gt;Tourism&lt;/p&gt;&lt;/div&gt; ... &lt;div class="bg-info"&gt;&lt;p&gt;Tourism&lt;/p&gt;&lt;/div&gt; ... &lt;div class="bg-light"&gt;&lt;p&gt;Tourism&lt;/p&gt;&lt;/div&gt; ... &lt;div class="bg-dark"&gt;&lt;p&gt;Tourism&lt;/p&gt;&lt;/div&gt; &lt;/body&gt;</pre> | <div>Tourism</div> <div>Tourism</div> <div>Tourism</div> <div>Tourism</div> <div>Tourism</div> <div>Tourism</div> <div>Tourism</div> <div>Tourism</div> |
|--|---|

### Pre defined class names

In [10]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html18.png")
```

Out[10]:



|                   |            |              |
|-------------------|------------|--------------|
| active            | badge      | caption      |
| affix             | bg-danger  | caret        |
| alert             | bg-info    | carousel     |
| alert-danger      | bg-primary | collapse     |
| alert-dismissible | bg-success | <b>card</b>  |
| alert-link        | bg-warning | card-body    |
| alert-success     | btn        | disabled     |
|                   |            | divider      |
|                   |            | many more... |

Note: Don't use predefined bootstrap class names in CSS Rulesets

**Bootstrap provides us with many predefined class names. Some of them are:**

card carousel alert alert-success alert-link bg-danger card-body and many more...

You can find the list of class names provided by the bootstrap

- [https://learning.ccbp.in/projects/course?c\\_id=fe4c935d-3ad5-4bb8-a1a5-9b045ae70010&t\\_id=a5451761-cf9a-473f-9b6e-f9bde4641239&s\\_id=cced1662-8460-43e2-a0c7-8c4b68af357b&enroll=true](https://learning.ccbp.in/projects/course?c_id=fe4c935d-3ad5-4bb8-a1a5-9b045ae70010&t_id=a5451761-cf9a-473f-9b6e-f9bde4641239&s_id=cced1662-8460-43e2-a0c7-8c4b68af357b&enroll=true) ([https://learning.ccbp.in/projects/course?c\\_id=fe4c935d-3ad5-4bb8-a1a5-9b045ae70010&t\\_id=a5451761-cf9a-473f-9b6e-f9bde4641239&s\\_id=cced1662-8460-43e2-a0c7-8c4b68af357b&enroll=true](https://learning.ccbp.in/projects/course?c_id=fe4c935d-3ad5-4bb8-a1a5-9b045ae70010&t_id=a5451761-cf9a-473f-9b6e-f9bde4641239&s_id=cced1662-8460-43e2-a0c7-8c4b68af357b&enroll=true)).

## Introduction to Bootstrap | Part 2

### Layout

- A layout is a pattern by which we structure the information and arrange the elements on the website.
- defining the position.

### Methods to design a Layout

- Mainly there are two methods that help to design the layout of the webpage
  - Flexbox(stable)
  - CSS Grid(Advanced & Fast growing but not stable)

### Flexbox

- it is a Layout Method that helps to arrange HTML elements in rows(horizontally) or columns(vertically)

## Flexbox Properties

### 1. Flexbox Container

- The Bootstrap class name d-flex defines a Flexbox Container. The direct HTML elements in the Flexbox Container are called flex items.
  - The HTML container element with the class="d-flex" is a Flexbox Container.
  - The HTML container element div in Flexbox Container is a flex item. Because it is directly inside the Flexbox Container.
  - The HTML main heading, paragraph, and button elements are not flex items. Because these elements are not directly inside the Flexbox Container.

#### Note:

- Wrapping HTML elements in the Flexbox Container is mandatory to apply other flex properties.

### 2. Flex Direction

- The Flex Direction specifies the direction of the flex items in the Flexbox Container.

#### 2.1 flex-row

- The Bootstrap class name flex-row is used to move the flex items horizontally in the Flexbox Container.

#### 2.2 flex-column

- The Bootstrap class name flex-column is used to move the flex items vertically in the Flexbox Container.

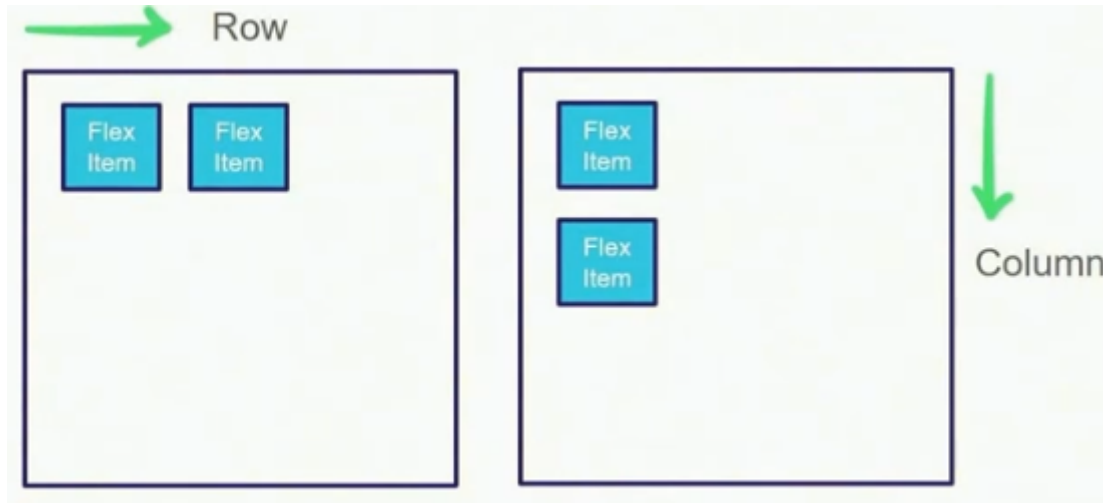
#### Note

- The Bootstrap class name flex-row is the default Flex Direction for the Flexbox Container. So, once d-flex is specified, all the flex items in the Flexbox Container display horizontally.

In [11]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html22.png")
```

Out[11]:



### 3. Justify Content

- The Justify Content specifies the alignment of flex items along the Flex Direction in a Flexbox Container.

#### 3.1 justify-content-start

- The Bootstrap class name justify-content-start is used to align the flex items at the start of the Flexbox Container either horizontally or vertically based on the Flex Direction.

#### 3.2 justify-content-center

- The Bootstrap class name justify-content-center is used to align the flex items at the center of the Flexbox Container either horizontally or vertically based on the Flex Direction.

#### 3.3 justify-content-end

- The Bootstrap class name justify-content-end is used to align the flex items at the end of the Flexbox Container either horizontally or vertically based on the Flex Direction.



In [12]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html21.png")
```

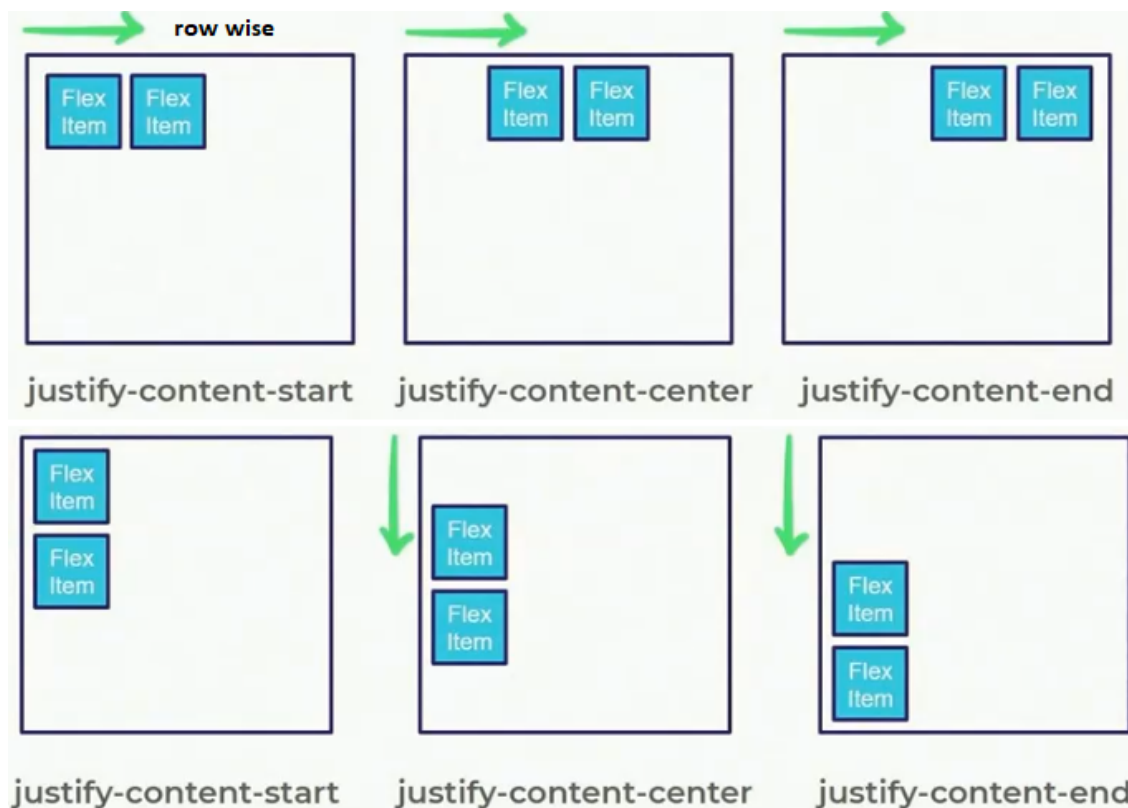
Out[12]:

```
<body>
...<div class="d-flex flex-row justify-content-start">
...<div class="d-flex flex-row justify-content-center">
...<div class="d-flex flex-row justify-content-end">
...<div class="d-flex flex-column justify-content-start">
...<div class="d-flex flex-column justify-content-center">
...<div class="d-flex flex-column justify-content-end">
...|...<div>
...|...<h1>Tourism</h1>
...|...<p>Plan your trip.</p>
...|...<button>Get Started</button>
...|...</div>
...</div>
</body>
..
..
```

In [13]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html23.png")
```

Out[13]:



In [14]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html24.png")
```

Out[14]:

```
> <> pg6_flexbox_main.html > ...
<!DOCTYPE html>
<html>
<head>
... <link rel="stylesheet" type="text/css" href="pg6_style.css" />
... <link rel="stylesheet"
... href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
... integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpsL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
... crossorigin="anonymous"/>
... <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
... integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
... crossorigin="anonymous"></script>
... <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
... integrity="sha384-9/reFTGAW83EW2RDu2S0VKA1Zap3H66lZ81PoYlFhbGU+6BZp6G7niu735Sk7lN"
... crossorigin="anonymous"></script>
... <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
... integrity="sha384-B4gt1jrGC7Jh4AgTPSdUtOBvf08shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
... crossorigin="anonymous"></script>
</head>
<body>
... <div class="bg-container d-flex flex-column justify-content-end">
... <div class="tourism-card">
... <h1 class="main-heading">Tourism</h1>
... <p class="paragraph">plan your trip wherever you want to go.</p>
... <button class="button">Get Started</button>
... </div>
... </div>
</body>
</html>
```

In [15]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html25.png")
```

Out[15]:

```
> # pg6_style.css > ...
@import url("https://fonts.googleapis.com/css2?family=Bree+Serif&family=(<
.bg-container{
  height: 100vh;
  background-size: cover;
  background-image: url("D:/Tech/0.UI/code/HtmlCss1/images/ocean.jpg");
}

.tourism-card{
  text-align: center;
  background-color: white;
  border-top-left-radius: 25px;
  border-top-right-radius: 25px;
  padding: 5px;
}

.button{
  height: 36px;
  width: 138px;
  background-color: #25b1cc;
  color: white;
  border-radius: 25px;
  border-width: 0px;
}

.main-heading{
  color: blue;
}

.paragraph{
  color: grey;
}
```

## Task2 : Chat Page

In [16]:

```
from IPython.display import Image
Image("E:/code/frontend/img/htmlpractice3.png")
```

Out[16]:

```
<body>
<div class="bg-container">
  <h1 class="main-heading"> Pavan Kumar Puppala </h1>
  <div class="chat-page">
    <p class="msg-send"> Hello Pavan, how are you? </p>
    <p class="msg-receive"> Hi chandu, I am good. How about you? </p>
    <p class="msg-send"> I'm fine. I published my website recently </p>
    <p class="msg-receive"> Oh great chandu! Can you send me the URL? </p>
    <p class="msg-send"> https://chandu.com </p>
    <p class="msg-receive"> Awesome chandu, where did you learn? </p>
    <p class="msg-send"> from all different websites..</p>
  </div>
</div>
</body>
```

In [17]:

```
from IPython.display import Image
Image("E:/code/frontend/img/htmlpractice4.png")
```

Out[17]:

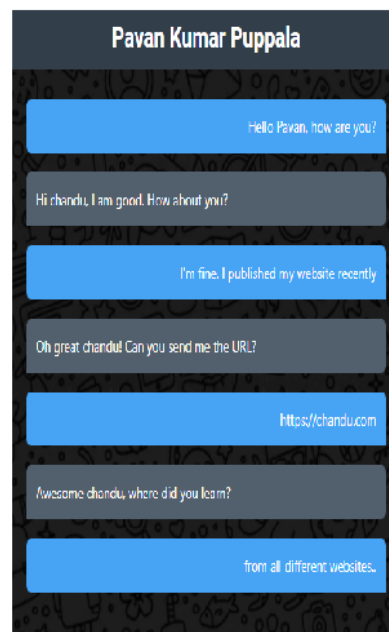
```
_4 > # practice2_style.css > .chat-page
@import url("https://fonts.google:
.bg-container {
  background-image: url("D:/Tech
  height: 100vh;
  background-size: cover;
}

.main-heading {
  color: #ffffff;
  background-color: #323f4b;
  font-family: "Roboto";
  font-size: 24px;
  text-align: center;
  padding: 12px;
  font-weight: bold;
}

.msg-send {
  color: #ffffff;
  background-color: #47a3f3;
  font-size: 14px;
  text-align: right;
  padding: 12px;
  border-top-left-radius: 6px;
  border-top-right-radius: 6px;
  border-bottom-left-radius: 6px;
}

.msg-receive {
  color: #ffffff;
  background-color: #52606d;
  font-size: 14px;
  text-align: left;
  padding: 12px;
  border-top-left-radius: 6px;
  border-top-right-radius: 6px;
  border-bottom-right-radius: 6px;
}

.chat-page {
  margin: 24px;
}
```



### Task3: Code page

In [18]:

```
from IPython.display import Image
Image("E:/code/frontend/img/htmlpractice5.png")
```

Out[18]:

```
i_4 > <> practice3_codepage.html > html > head > link
<!DOCTYPE html>
<html>
```

```
<head>
<!--<link rel="stylesheet" type="text/css" href="practice3_style.css"/>
<!--<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/boot
<!--<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integ
<!--<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/j
<!--<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/b
</head>

<body>
<!--<div class="bg-container d-flex flex-column justify-content-center">
<!--<div class="text-card">
<!--<h1> Code is more than some bytes in a file </h1>
<!--</div>
<!--</div>
</body>
</html>
```

```
3_4 > # practice3_style.css > ...
@import url("https://fonts.googleapis.com/css?family=Bree+Serif");

.text-card {
  color: #ffffff;
  background-color: #000000;
  font-family: "Bree Serif";
  text-align: center;
  border-color: #48ee59;
  border-style: solid;
  border-width: 4px;
  height: 280px;
  width: 280px;
  padding: 32px;
  margin-left: 48px;
  margin-right: 48px;
}

.bg-container {
  background-image: url("D://Tech/");
  height: 100vh;
  background-size: cover;
}
```



## Task4: food page

In [19]:

```
from IPython.display import Image
Image("E:/code/frontend/img/htmlpractice6.png")
```

Out[19]:

```
_4 > <> practice4_food.html > ...
```

```
<!DOCTYPE html>
<html>
<head>
<!--<link rel="stylesheet" type="text/css" href="practice4_style.css"/>
<!--<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/boo
<!--<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2l
<!--<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js" inte
<!--<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js" in
</head>
<body>
<!--<div class="bg-container d-flex flex-column justify-content-end">
<!--<div class="restaurent-card">
<!--<h1 class="main-heading"> Happy Meals </h1>
<!--<p class="description"> Discover the best foods over the 1,000 restaurents </p>
<!--<button class="button"> Book Now </button>
<!--</div>
<!--</div>
</body>
</html>
```

In [20]:

```
from IPython.display import Image
Image("E:/code/frontend/img/htmlpractice7.png")
```

Out[20]:

```
3_4 > # practice4_style.css > .bg-contain
@import url("https://fonts.google

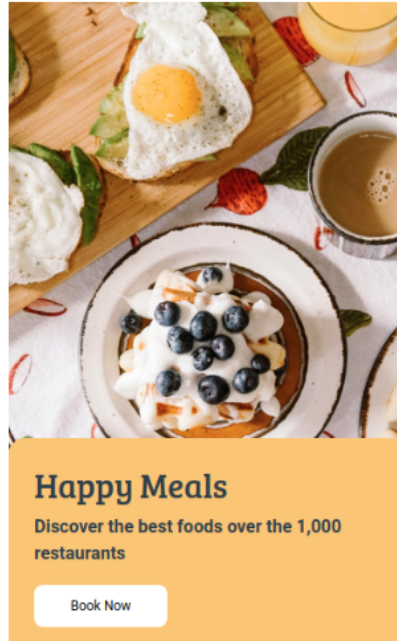
...
.main-heading {
... color: #323f4b;
... font-family: "Bree-Serif";
... font-size: 26px;
... font-weight: bold;
...
}

...
.description {
... color: #323f4b;
... font-family: "Roboto";
... font-weight: bold;
... font-size: 16px;
...
}

...
.button {
... color: #323f4b;
... background-color: #ffffff;
... font-family: "Roboto";
... font-size: 12px;
... height: 36px;
... width: 100px;
... border-radius: 8px;
... border-width: 0px;
...
}

3_4 > # practice4_style.css > .bg-container
...
.restaurant-card {
... background-color: #f6c56e;
... padding: 24px;
... border-top-left-radius: 12px;
... border-top-right-radius: 12px;
...
}

...
.bg-container {
... background-image: url("D:/Tech/6
... height: 100vh;
... background-size: cover;
...
}
```



## Topic 4: Developing Layouts

### 1. HTML Elements

#### 1.1 Image Element : The HTML img element defines an Image.

- Syntax: `img src="IMAGE_URL"/>`

#### 1.2 The src Attribute: The HTML Attribute src specifies the path (URL) of the Image.

- `img src="D:/Tech/0.UI/code/HtmlCss1/images/tajmahal-img.png"/>`

### 1.3 How to get the path (URL) of an Image?

- One of the ways to get the path (URL) of an Image from the internet.
- Open the Google Image search page: Go to <https://images.google.com/> (<https://images.google.com/>) in your Web browser. This will open the Google search page for images.
- Enter an image you want to search for: Type a word or phrase into the text box in the middle of the page.
- Click the Search icon: It's to the right of the text box. Doing so will search Google for images related to your search.
- Find your image: Scroll through the results until you find one which matches your needs.
- Open the image in a new tab: Click the Open image in new tab.
- Copy the image's URL: Copy the entire URL of the image from the address bar of the Web browser.
- Paste this URL in the HTML src Attribute of an HTML img element.

### 1.4 How to apply Height and Width to an Image?

- We can provide multiple HTML Attributes to the HTML img element. The HTML src and class Attributes are provided in the HTML img element given below.
- `img src="D:/Tech/0.UI/code/HtmlCss1/images/tajmahal-img.png" class="image" />`
- `.image { width: 80px; height: 100px; }`

## 2. Void Elements

- The HTML elements that only have a start tag and do not contain content or end tag are called as Void Elements.
- Syntax: `tag />`
- For example, the HTML img element. : `img src="D:/Tech/0.UI/code/HtmlCss1/images/tajmahal-img.png"/>`

## 3. CSS Box Model Properties

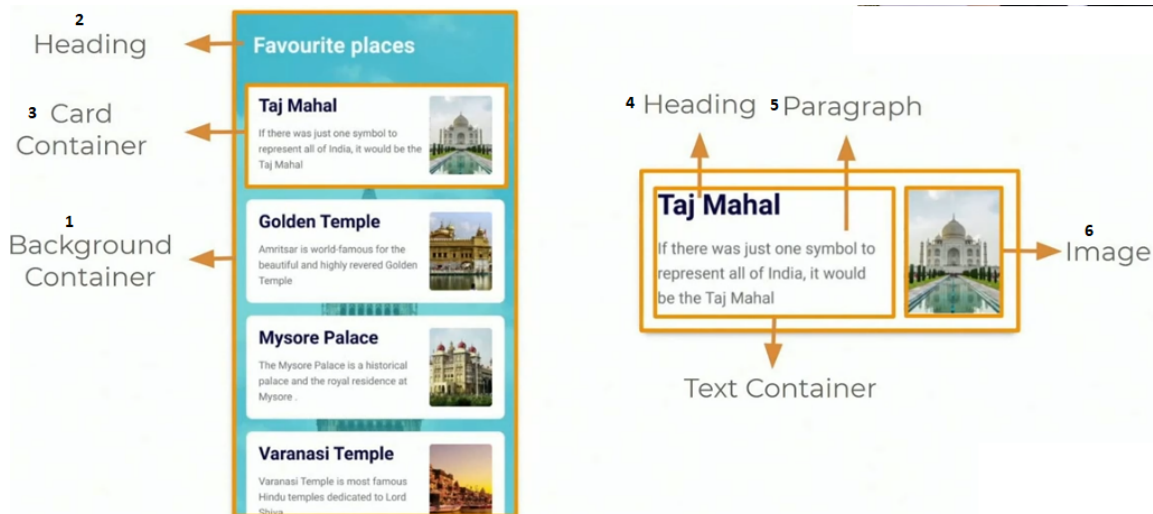
### 3.1 Margin

- The CSS margin property specifies the space around the four sides of an HTML element.
- `.card-container { margin: 10px; }`
- You can use the below CSS properties to apply a margin on the specific side of an HTML element,
- `margin-top`, `margin-right`, `margin-bottom`, `margin-left`

In [21]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html26.png")
```

Out[21]:



In [22]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html27.png")
```

Out[22]:

```
3.4 > <> pg7_favourite_page.html > ...
<body>
  <div class="fav-places-bg-container">
    <h1 class="fav-places-heading">Favourite Places</h1>
    <div class="fav-place-card-container d-flex flex-row">
      <div>
        <h1 class="fav-place-card-heading">Taj Mahal</h1>
        <p class="fav-place-card-description">
          If there was just one symbol to represent all of India, it would be
          the Taj Mahal
        </p>
      </div>
      
    </div>
  </div>
</body>
</html>
```

```
@import url("https://fonts.goo... .fav-place-card-heading{
.fav-places-bg-container{
  height: 100vh;
  background-size: cover;
  background-image: url("D:/T...
}
.fav-places-heading{
  color: white;
  font-family: 'Roboto';
  font-size: 28px;
  font-weight: bold;
  padding: 24px;
}
.fav-place-card-container{
  background-color: white;
  border-radius: 8px;
  padding: 16px;
}
.fav-place-card-heading{
  color: #0f0e46;
  font-family: 'Roboto';
  font-size: 23px;
  font-weight: bold;
}
.fav-place-card-description{
  color: #6c6b70;
  font-family: 'Roboto';
  font-size: 13px;
}
.fav-place-card-image{
  width: 80px;
  height: 100px;
}
```

Now Adding all the cards and add margin(space) between the cards



In [23]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html28.png")
```

Out[23]:

```
<body>
<div class="fav-places-bg-container">
<h1 class="fav-places-heading">Favourite Places</h1>
<div class="fav-place-card-container d-flex flex-row">
<div>
<h1 class="fav-place-card-heading">Taj Mahal</h1>
<p class="fav-place-card-description">
If there was just one symbol to represent all of India, it would be
the Taj Mahal
</p>
</div>

</div>
<div class="fav-place-card-container d-flex flex-row">
<div>
<h1 class="fav-place-card-heading">Golden Temple</h1>
<p class="fav-place-card-description">
Amritsar is world-famous for the beautiful and highly revered Golden
Temple
</p>
</div>

</div>

@import url("https://fonts.goog
.fav-places-bg-container{
height: 100vh;
background-size: cover;
background-image: url("D:/T
}

.fav-places-heading{
color: white;
font-family: 'Roboto';
font-size: 28px;
font-weight: bold;
padding: 24px;
}

.fav-place-card-container{
background-color: white;
border-radius: 8px;
padding: 16px;
margin: 15px;
}
```

## Approach to Develop a Layout

### 1. HTML Image vs CSS Background Image

- Ways to add Images in Website:
  - HTML Image
  - CSS Background Image
- When to use HTML Image:
  - When there are no content or HTML elements over the Image.
  - When Image is a part of the content on a page.
- When to use CSS Background Image:
  - When Image is not a part of the content on a page.
  - When there are content or HTML elements over the Image.

### 2. CSS Margin vs CSS Padding

- When to use CSS Padding:
  - To specify the space around the four sides of the content of an HTML element.
  - To add the space between the content and border of an HTML element.
- When to use CSS Margin:
  - To specify the space around the four sides of an HTML element.
  - To add the space between HTML elements.

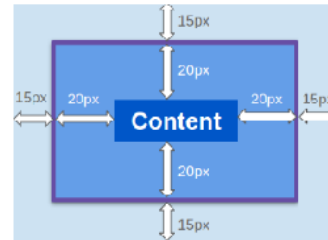
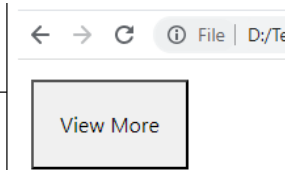
In [24]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html29.png")
```

Out[24]:

```
<body>
<button class="button">View More</button>
</body>

@import url("https://fonts.googleapis.com/css2?f
.button {
padding: 20px;
margin: 15px;
}
```



### 3. Step by Step Process to develop a Diwali Page

- Let's divide the Diwali Page into two Sections.
  - Top Section
  - Bottom Section
  - Go through the previous Cheat Sheets and use the suitable CSS Property and Value pairs

#### 3.1 Top Section

- Follow the steps to develop a top Section of the Diwali Page
- Step-1: Adding a background image to the Top Section
  - Add the background image
  - Specify the height of the background image
  - Specify the background size to the image and whether to occupy up to the specified width and height or not
- Step-2: Adding a Top Section heading
  - Add the Top Section heading
  - Specify the color of the text
  - Specify the font family of the text
  - Specify the size of the text
  - Specify the width of the text (heading box)
  - Specify the padding of the text (heading box)

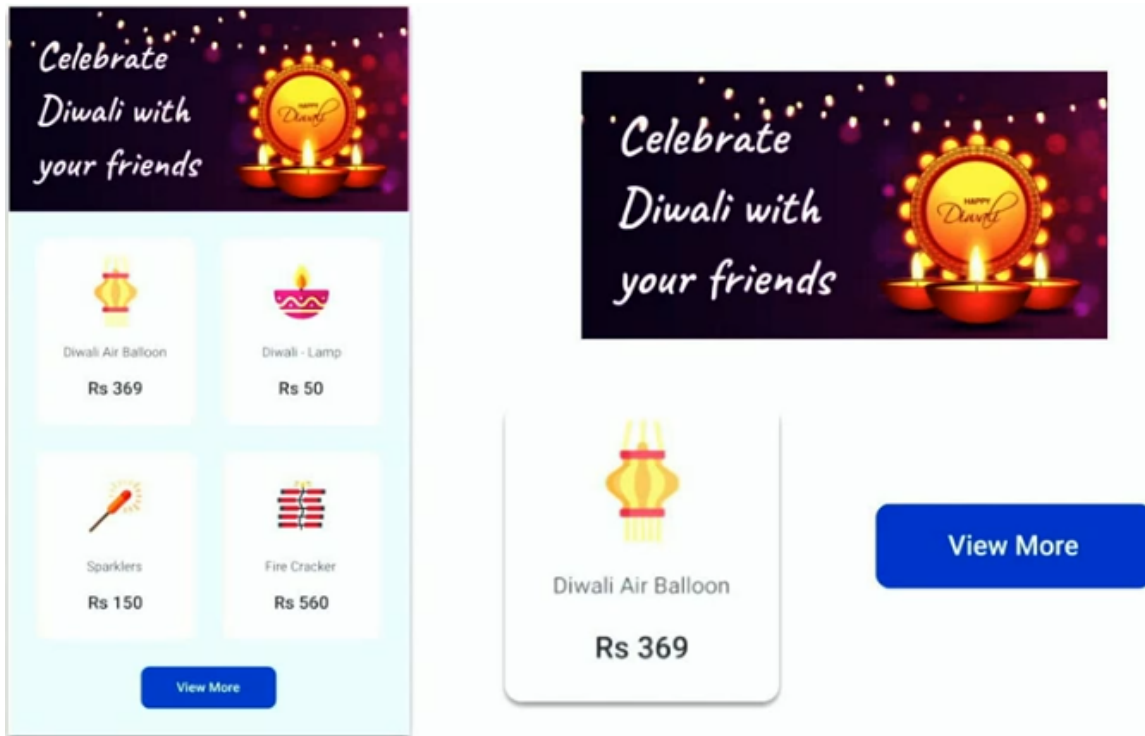
### 3.2 Bottom Section

- Follow the steps to develop a Bottom Section of the Diwali Page
- Step-1: Adding a Bottom Section Container
  - Add the background color
  - Specify the padding to the Bottom Section Container
- Step-2: Adding the card item
  - Add the background color
  - Add the image
    - Specify the width and height of the image
  - Add the name of the card item
    - Specify the color of the text
    - Specify the size of the text
  - Add the price of the card item
    - Specify the color of the text
    - Specify the size of the text
    - Specify the font weight of the text
  - Specify padding to the card item
  - Specify the text alignment of the card item
- Step-3: Aligning the card items
  - Specify margin to the card items
  - Align the pair of two cards side by side using Flexbox properties
    - Wrap two cards with the HTML container element
    - Define it as a Flexbox Container
    - Specify the Flex Direction to it
    - Specify the Justify Content to it
- Step-4: Adding the button
  - Add the button
  - Add the button bootstrap class names to it
  - Specify the text alignment of the Bottom Section Container

In [25]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html30.png")
```

Out[25]:



In [27]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html31.png")
```

Out[27]:

```
<body>
<div class="diwali-top-section">
  <h1 class="diwali-top-section-heading">
    Celebrate Diwali with your friends
  </h1>
</div>
<div class="diwali-bottom-section">
  <div class="d-flex flex-row justify-content-center">
    <div class="diwali-card-item">
      
      <h1 class="diwali-card-name">Diwali Air Balloon</h1>
      <p class="diwali-card-price">Rs 369</p>
    </div>
    <div class="diwali-card-item">
      
      <h1 class="diwali-card-name">Diwali - Lamp</h1>
      <p class="diwali-card-price">Rs 50</p>
    </div>
  </div>
  <div class="d-flex flex-row justify-content-center">
    <div class="diwali-card-item">
      
      <h1 class="diwali-card-name">Sparklers</h1>
      <p class="diwali-card-price">Rs 150</p>
    </div>
    <div class="diwali-card-item">
      
      <h1 class="diwali-card-name">Fire Cracker</h1>
      <p class="diwali-card-price">Rs 560</p>
    </div>
  </div>
  <button class="btn btn-primary">View More</button>
</div>
</body>
```

In [29]:

```
from IPython.display import Image
Image("E:/code/frontend/img/html32.png")
```

Out[29]:

```
@import url("https://fonts.googleapis.com/css2?family=Bree+Serif&family=Caveat");

.diwali-top-section {
  background-image: url("D:/Tech/0.UI/code/HtmlCss1/images/diwali-bg.png");
  height: 30vh;
  background-size: cover;
}

.diwali-top-section-heading {
  color: white;
  font-family: "Caveat";
  font-size: 37px;
  width: 200px;
  padding-top: 36px;
  padding-left: 37px;
}

.diwali-bottom-section {
  text-align: center;
  background-color: #e6f6ff;
  padding: 15px;
}

.diwali-card-item {
  text-align: center;
  background-color: white;
  width: 140px;
  border-radius: 9px;
  padding: 16px;
  margin: 15px;
}

.diwali-card-image {
  height: 64px;
  width: 64px;
}

.diwali-card-name {
  color: #616e7c;
  font-family: "Roboto";
  font-size: 12px;
  font-weight: normal;
}

.diwali-card-price {
  color: #323f4b;
  font-family: "Roboto";
  font-size: 16px;
  font-weight: 500;
}
```