Bootstrap Assignment

Q1. What are the default Bootstrap text settings?

1. Ans. `display` **Classes**:
   - `display-1` through `display-4`: These classes are used for headings with increasing font size and decreasing emphasis.
2. **Heading Classes**:
   - `h1` to `h6`: These represent HTML headings with decreasing font size.
3. **Text Color Classes**:
   - `text-muted`: Light gray color for de-emphasized text.
   - `text-primary`, `text-secondary`, `text-success`, `text-danger`, `text-warning`, `text-info`, `text-light`, `text-dark`: Classes for various text colors.
4. **Font Weight**:
   - `font-weight-bold`: Bold text.
   - `font-weight-normal`: Normal (default) font-weight.
5. **Text Alignment**:
   - `text-left`, `text-center`, `text-right`, `text-justify`: Classes for aligning text.
6. **Text Transformation**:
   - `text-lowercase`: Converts text to lowercase.
   - `text-uppercase`: Converts text to uppercase.
   - `text-capitalize`: Capitalizes the first letter of each word.
7. **Text Style**:
   - `font-italic`: Italicizes text.
8. **Responsive Text Sizing**:
   - `text-sm`, `text-md`, `text-lg`, `text-xl`, `text-xxl`: Classes to set text size at different breakpoints.

Q2. What do you know about the Bootstrap Grid System?

Ans; Grid Layout:

- **Rows and Columns:** The layout is organized into rows (`<div class="row">`) containing columns (`<div class="col-XX-YY">`).
- **12 Columns:** The grid system is divided into 12 equal columns across the page by default.
- **Column Classes:** Columns are defined using classes like `col-XX-YY`, where `XX` specifies the device size (such as `xs` for extra small, `sm` for small, `md` for medium,

`lg` for large, `xl` for extra-large) and `YY` specifies the number of columns a particular element should span (e.g., `col-md-6` spans 6 columns on medium devices).

Responsive Design:

- **Mobile-First Approach:** Bootstrap's grid system follows a mobile-first approach, prioritizing the design for smaller devices and then scaling up for larger screens.
- **Breakpoints:** The grid system utilizes breakpoints to define how the layout should change on different device sizes (`xs`, `sm`, `md`, `lg`, `xl`).

Nesting and Offset:

- **Nested Grids:** Columns can be nested within other columns to create more complex layouts.
- **Offsetting Columns:** Bootstrap provides classes (`offset-XX-YY`) to create offset columns, allowing for better alignment and spacing.

Grid Utilities:

- **Utility Classes:** Bootstrap offers utility classes for quick adjustments, like hiding elements on specific screen sizes (`d-none`, `d-sm-block`, etc.) or adjusting margins and padding (`m-XX`, `p-XX`).

Implementation:

- **HTML Structure:** Developers can use the grid system by simply structuring their HTML with rows and columns, assigning appropriate classes to elements.
- **Flexbox-Based:** Bootstrap's grid system is built on Flexbox, making it flexible and efficient for arranging content.

The Bootstrap Grid System provides a powerful and flexible way to create responsive layouts, enabling developers to build web pages that adapt and look good on various devices and screen sizes.

Q3. What is the difference between Bootstrap 4 and Bootstrap 5

Ans; Bootstrap 5 has six levels: xs, sm, md, lg, xl, and xxl. Bootstrap 4 includes jquery and all associated plug-ins

Q4. 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 a series of buttons in groups (without spaces) vertically or horizontally

Q5. How can you use Bootstrap to make thumbnails?

Ans; <div class="row">

  <div class="col-md-4">

    <img src="image1.jpg" class="img-thumbnail" alt="Thumbnail Image 1">

  </div>

  <div class="col-md-4">

    <img src="image2.jpg" class="img-thumbnail" alt="Thumbnail Image 2">

  </div>

  <div class="col-md-4">

    <img src="image3.jpg" class="img-thumbnail" alt="Thumbnail Image 3">


```
    </div>
  </div>
```

- `row` and `col-md-4` classes from Bootstrap create a row with three equal-width columns on medium-sized devices.
- `img-thumbnail` class is applied to the `<img>` tag to style the image as a thumbnail.
- The `alt` attribute provides alternative text for accessibility and SEO purposes.

You can adjust the grid classes (`col-md-4`, etc.) and the content inside each column according to your layout and requirements. This basic structure showcases how Bootstrap's `img-thumbnail` class can be used to style images as thumbnails within a grid layout.

Q6. In Bootstrap 4, what is flexbox?

Ans; Bootstrap 4 now uses flexbox, instead of floats, to handle the layout

Ans; <div class="alert alert-success" role="alert">

  This is a success alert!

</div>

<div class="alert alert-info" role="alert">

  This is an info alert!

</div>

<div class="alert alert-warning" role="alert">

This is a warning alert!

</div>

<div class="alert alert-danger" role="alert">

  This is a danger alert!

</div>

Q8. What is a bootstrap card and how would you create one?

Ans; <div class="card">

  <img src="image.jpg" class="card-img-top" alt="Image">

  <div class="card-body">

    <h5 class="card-title">Card Title</h5>

    <p class="card-text">Some quick example text to show content within the card.</p>

    Go somewhere

  </div>

</div>

In this example:

- The `<div class="card">` creates the card container.
- Inside the card, `<img>` with class `card-img-top` represents the top image of the card.
- `<div class="card-body">` contains the main content of the card.
- `<h5 class="card-title">` is used for the card title.

- `<p class="card-text">` is used for the card content or text.
- `<a href="#" class="btn btn-primary">` is an example of a button within the card.

Practical

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Document</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dis
t/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwyk
c2MPK8M2HN" crossorigin="anonymous">
    <style>
        .buttom {
            background-color: blue;
            color: white;
        }

        .card {
            padding: 40px;
            margin: 20px;


        }
```

```css
        .card img {
            border-radius: 100%;
            width: 100%;
            margin: 0 auto;
            height: 250px;
        }

        .card-body {
            margin: 0 auto;
        }

        .row h3 {
            padding: 30px;
            margin: 10px;
        }
        .sec-four{
            padding: 20px;
        }
        .sec-three{
            padding: 20px;
        }
        .sec-five{
            padding: 20px;
        }
    </style>
</head>

<body>
    <section class="sec-one">
        <div class="container">
            <nav class="navbar navbar-expand-lg bg-
body-tertiary">
                <div class="container-fluid">
```

```html
                        <a class="navbar-brand"
href="#">Carousel</a>
                        <button class="navbar-toggler"
type="button" data-bs-toggle="collapse"
                            data-bs-
target="#navbarSupportedContent" aria-
controls="navbarSupportedContent"
                            aria-expanded="false" aria-
label="Toggle navigation">
                            <span class="navbar-toggler-
icon"></span>
                        </button>
                        <div class="collapse navbar-
collapse" id="navbarSupportedContent">
                            <ul class="navbar-nav me-auto
mb-2 mb-lg-0">
                                <li class="nav-item">
                                    <a class="nav-link
active" aria-current="page" href="#">Home</a>
                                </li>
                                <li class="nav-item">
                                    <a class="nav-link"
href="#">Link</a>
                                </li>
                                <!-- <li class="nav-item
dropdown">
                    <a class="nav-link dropdown-toggle"
href="#" role="button" data-bs-toggle="dropdown" aria-
expanded="false">
                        Dropdown
                    </a> -->
                                <ul class="dropdown-menu">
                                    <li><a
class="dropdown-item" href="#">Action</a></li>
```

```html
                                <li><a class="dropdown-item" href="#">Another action</a></li>
                                <li>
                                    <hr class="dropdown-divider">
                                </li>
                                <li><a class="dropdown-item" href="#">Something else here</a></li>
                            </ul>
                        </li>
                        <li class="nav-item">
                            <a class="nav-link disabled" aria-disabled="true">Disabled</a>
                        </li>
                    </ul>
                    <form class="d-flex" role="search">
                        <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">
                        <button class="btn btn-outline-success" type="submit">Search</button>
                    </form>
                </div>
            </div>
        </nav>
        <div id="carouselExampleCaptions" class="carousel slide">
            <div class="carousel-indicators">
                <button type="button" data-bs-target="#carouselExampleCaptions" data-bs-slide-to="0" class="active"
```

```html
                          aria-current="true" aria-
label="Slide 1"></button>
                        <button type="button" data-bs-
target="#carouselExampleCaptions" data-bs-slide-to="1"
                          aria-label="Slide 2"></button>
                        <button type="button" data-bs-
target="#carouselExampleCaptions" data-bs-slide-to="2"
                          aria-label="Slide 3"></button>
                </div>
                <div class="carousel-inner">
                      <div class="carousel-item active">
                          <img src="./img/photo-3.avif"
class="d-block w-100" alt="...">
                          <div class="carousel-caption
d-none d-md-block">
                              <h5>One more for good
measure</h5>
                              <p>Lorem ipsum dolor sit
amet consectetur adipisicing elit. Perferendis tempora
id
                                  dignissimos in
                                  ratione, dicta totam
ipsum aliquid assumenda beatae ipsa eum iure est
provident
                                  accusamus
                                  expedita quas
voluptates officia?</p>
                              <button
class="buttom">Browsr gallery</button>
                          </div>
                      </div>
                      <div class="carousel-item">
                          <img src="./img/photo1.avif"
class="d-block w-100" alt="...">
```

```html
                        <div class="carousel-caption
d-none d-md-block">
                            <h5>One more for good
measure</h5>
                            <p>Lorem ipsum dolor sit
amet consectetur adipisicing elit. Assumenda, eum
sint? Praesentium
                        tempore
                        dolorum maxime
repudiandae modi deleniti aspernatur, et architecto
dolorem natus hic
                        magni quo
                        delectus quisquam
facere quasi, facilis quaerat, rerum a voluptas.</p>
                            <button
class="buttom">Browsr gallery</button>
                        </div>
                    </div>
                    <div class="carousel-item">
                        <img src="./img/photo-2.avif"
class="d-block w-100" alt="...">
                        <div class="carousel-caption
d-none d-md-block">
                            <h5>One more for good
measure</h5>
                            <p>Lorem ipsum dolor sit
amet consectetur adipisicing elit. Quos, cupiditate
autem quia
                        atque hic
                        illo enim eaque
impedit voluptatem omnis doloribus asperiores esse
optio distinctio modi
                        ipsa
                        quasi velit cum?</p>
```

```html
                              <button
class="buttom">Browsr gallery</button>
                         </div>
                    </div>
                </div>
                <button class="carousel-control-prev"
type="button" data-bs-
target="#carouselExampleCaptions"
                    data-bs-slide="prev">
                    <span class="carousel-control-
prev-icon" aria-hidden="true"></span>
                    <span class="visually-
hidden">Previous</span>
                </button>
                <button class="carousel-control-next"
type="button" data-bs-
target="#carouselExampleCaptions"
                    data-bs-slide="next">
                    <span class="carousel-control-
next-icon" aria-hidden="true"></span>
                    <span class="visually-
hidden">Next</span>
                </button>
            </div>
        </div>
    </section>
    <section class="sec-two">
        <div class="container">
            <div class="card-group">
                <div class="card">
                    <img src="./img/photo1.avif"
alt="...">
                    <div class="card-body">
```

```html
                        <h4 class="card-title">Card
title</h4>
                        <p class="card-text">This is a
wider card with supporting text below as a natural
lead-in to
                            additional
                            content. This content is a
little bit longer.</p>
                        <!-- <p class="card-
text"><small class="text-body-secondary">Last updated
3 mins ago</small></p> -->
                        <button class="buttom">Veiw
detail</button>
                    </div>
                </div>
                <div class="card">
                    <img src="./img/photo-2.avif"
alt="...">
                    <div class="card-body">
                        <h4 class="card-title">Card
title</h4>
                        <p class="card-text">This card
has supporting text below as a natural lead-in to
additional
                            content.</p>
                        <!-- <p class="card-
text"><small class="text-body-secondary">Last updated
3 mins ago</small></p> -->
                        <button class="buttom">Veiw
detail</button>
                    </div>
                </div>
                <div class="card">
```

```html
                <img src="./img/photo-3.avif" alt="...">
                <div class="card-body">
                    <h4 class="card-title">Card title</h4>
                    <p class="card-text">This is a wider card with supporting text below as a natural lead-in to
                        additional
                        content. This card has even longer content than the first to show that equal height action.
                    </p>
                    <!-- <p class="card-text"><small class="text-body-secondary">Last updated 3 mins ago</small></p> -->
                    <button class="buttom">Veiw detail</button>
                </div>
            </div>
        </div>
    </div>
</section>
<section class="sec-three">
    <div class="container">
        <div class="container text-center">
            <div class="row">
                <div class="col">
                    <h3>First featurette heading . it'll blow your mind</h3>
                    <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Vero quidem nesciunt magnam quae,
```

```html
                                ipsa quam, tempore dolor
dicta aliquid inventore nemo commodi. Laboriosam nemo
error fuga,
                                architecto temporibus
velit fugit est officiis saepe a consequatur
dignissimos quo ea
                                molestias? Unde.</p>
                    </div>
                    <div class="col">
                        <img src="./img/photo1.avif"
alt="">
                    </div>
                </div>
            </div>
        </div>
    </section>
    <section class="sec-four">
        <div class="container">
            <div class="container text-center">
                <div class="row">
                    <div class="col">
                        <img src="./img/photo-2.avif"
alt="">
                    </div>
                    <div class="col">
                        <h3>First featurette heading .
it'll blow your mind</h3>
                        <p>Lorem ipsum dolor sit amet,
consectetur adipisicing elit. Vero quidem nesciunt
magnam quae,
                                ipsa quam, tempore dolor
dicta aliquid inventore nemo commodi. Laboriosam nemo
error fuga,
```

```
                                    architecto temporibus
velit fugit est officiis saepe a consequatur
dignissimos quo ea
                                molestias? Unde.</p>
                    </div>
                </div>
            </div>
        </div>
    </section>
    <section class="sec-five">
        <div class="container">
            <div class="container text-center">
                <div class="row">
                    <div class="col">
                        <h3>First featurette heading .
it'll blow your mind</h3>
                        <p>Lorem ipsum dolor sit amet,
consectetur adipisicing elit. Vero quidem nesciunt
magnam quae,
                            ipsa quam, tempore dolor
dicta aliquid inventore nemo commodi. Laboriosam nemo
error fuga,
                            architecto temporibus
velit fugit est officiis saepe a consequatur
dignissimos quo ea
                                molestias? Unde.</p>
                    </div>
                    <div class="col">
                        <img src="./img/photo-3.avif"
alt="">
                    </div>
                </div>
            </div>
        </div>
```

```html
    </section>
    <footar>
        <div class="container">
            <div class="container text-center">
                <div class="row">
                    <div class="col">
                        <!-- <h3>First featurette
heading . it'll blow your mind</h3> -->
                        <p>
                            @ 2023-2024 Company,inc.
privacy.Terms.
                        </p>
                    </div>
                    <div class="col">
                        <a href="./index.html">Back to
top</a>
                    </div>
                </div>
            </div>
        </div>
    </footar>



    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist
/js/bootstrap.bundle.min.js"
        integrity="sha384-
C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW7RuBCsyN/o0jlpcV
8Qyq46cDfL"
        crossorigin="anonymous"></script>
</body>
```

```html
</html>
```