Bootstrap Full Notes for Beginners

1. Introduction to Bootstrap

Bootstrap is an open-source CSS framework for building responsive, mobile-first websites. It includes HTML, CSS, and JS components like buttons, navbars, forms, and more.

Features:

- Responsive Grid System

- Predefined Components

- Customizable design

- Cross-browser compatibility

2. Setting Up Bootstrap in VS Code

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1. Install Visual Studio Code from https://code.visualstudio.com/

2. Create a project folder (e.g., MCoderBootstrap/)

3. Open folder in VS Code (File -> Open Folder)

3. Creating index.html

Create a new file named index.html and paste the following code:

```
<!DOCTYPE html>

<html lang="en">

<head>
```

```html
  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Bootstrap Practice</title>

        <link      href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"

rel="stylesheet">

</head>

<body>

  <h1 class="text-center text-primary my-5">Welcome to Bootstrap</h1>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>

</body>

</html>
```

4. How to Use Bootstrap

Apply Bootstrap classes to HTML elements. Examples:

Button:

```html
<button class="btn btn-success">Click Me</button>
```


Grid Layout:

```html
<div class="container">

  <div class="row">

    <div class="col-md-6 bg-info">Column 1</div>

    <div class="col-md-6 bg-warning">Column 2</div>

  </div>

</div>
```

5. Bootstrap Components

Component	Usage
Buttons	`<button class="btn btn-primary">Click</button>`
Cards	`<div class="card">...</div>`
Navbar	`<nav class="navbar">...</nav>`
Forms	`<input class="form-control">`
Grid System	`<div class="row"><div class="col"></div></div>`
Alerts	`<div class="alert alert-warning">...</div>`
Badges	`<span class="badge bg-danger">New</span>`
Modals	Pop-up overlays
Carousel	Slideshow
Accordion	Collapsible sections
Collapse	Show/hide toggle
Dropdowns	Clickable menu
Tooltips	Hover text
Spinners	Loading indicator
Pagination	`<ul class="pagination">...</ul>`
Breadcrumbs	`<nav aria-label="breadcrumb">...</nav>`
Tables	`<table class="table">...</table>`
List Groups	`<ul class="list-group">...</ul>`
Toasts	Notification message
Progress Bars	`<div class="progress">...</div>`
Offcanvas	Sidebar menu

Card Example:

```html
<div class="card" style="width: 18rem;">

  <img src="https://via.placeholder.com/150" class="card-img-top" alt="...">

  <div class="card-body">

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

    <p class="card-text">Card content goes here.</p>

    <a href="#" class="btn btn-primary">Go somewhere</a>

  </div>

</div>
```