

**For bootstrap 4/5, In exam write below tag in <head>**

`<meta name="viewport" content="width=device-width, initial-scale=1">`

## Padding and margin

1. **m** - sets margin
2. **p** - sets padding
3. **t** - sets margin-top or padding-top (**mt/pt**)
4. **b** - sets margin-bottom or padding-bottom (**mb/pb**)
5. **l** - sets margin-left or padding-left (**ml/pl**)
6. **r** - sets margin-right or padding-right (**mr/pr**)
7. **x** - sets both padding-left and padding-right or margin-left and margin-right (**mx/px**)
8. **y** - sets both padding-top and padding-bottom or margin-top and margin-bottom (**my/py**)

- ✓ **0** - sets **margin** or **padding** to 0
- ✓ **1** - sets **margin** or **padding** to .25rem (4px if font-size is 16px)
- ✓ **2** - sets **margin** or **padding** to .5rem (8px if font-size is 16px)
- ✓ **3** - sets **margin** or **padding** to 1rem (16px if font-size is 16px)
- ✓ **4** - sets **margin** or **padding** to 1.5rem (24px if font-size is 16px)
- ✓ **5** - sets **margin** or **padding** to 3rem (48px if font-size is 16px)
- ✓ **auto** - sets margin to auto

## Text/Typography

```
<h1 class="display-1">Display 1</h1>
<h1 class="display-2">Display 2</h1>
<h1 class="display-3">Display 3</h1>
<h1 class="display-4">Display 4</h1>
```

<b>.font-weight-bold</b>	Bold text
<b>.font-weight-bolder</b>	Bolder text
<b>.font-italic</b>	Italic text
<b>.font-weight-light</b>	Light weight text
<b>.font-weight-lighter</b>	Lighter weight text
<b>.font-weight-normal</b>	Normal text

<b>.text-left</b>	Indicates left-aligned text
<b>.text-*-left</b> screens. <b>*-xs/sm/md/lg/xl</b>	Indicates left-aligned text on small, medium, large or xlarge screens.
<b>.text-center</b>	Indicates center-aligned text
<b>.text-*-center</b> screens <b>*-xs/sm/md/lg/xl</b>	Indicates center-aligned text on small, medium, large or xlarge screens
<b>.text-decoration-none</b>	Removes the underline from a link
<b>.text-right</b>	Indicates right-aligned text
<b>.text-*-right</b> screens <b>*-xs/sm/md/lg/xl</b>	Indicates right-aligned text on small, medium, large or xlarge screens
<b>.text-justify</b>	Indicates justified text
<b>.text-lowercase</b>	Indicates lowercased text
<b>.text-uppercase</b>	Indicates uppercased text
<b>.text-capitalize</b>	Indicates capitalized text
<b>.list-unstyled</b>	Removes the default list-style and left margin on list items (works on both <code>&lt;ul&gt;</code> and <code>&lt;ol&gt;</code> ). This class only applies to immediate children list items (to remove the default list-style from any nested lists, apply this class to any nested lists as well)
<b>.list-inline</b> <b>item</b> on each <code>&lt;li&gt;</code> elements)	Places all list items on a single line (used together with <b>.list-inline-item</b> )

## list-inline and list-inline-item

```
<ul class="list-inline text-danger">
  <li class="list-inline-item">Coffee</li>
  <li class="list-inline-item">Tea</li>
  <li class="list-inline-item">Milk</li>
</ul>
```

## list-unstyled

The class `.list-unstyled` removes the default list-style and left margin on list items (immediate children only):

```
<ul class="list-unstyled">
  <li>List 1</li>
```

```
<li>List 2</li>
<li>List 3</li>
</ul>
```

## Mark

```
<p>Use the mark element to <mark>highlight</mark> text.</p>
```

## Abbreviation

```
<p>The abbr element is used to mark up an abbreviation or acronym:</p>
<abbr title="Full Stack Development">FSD</abbr>
```

## Blockquotes

```
<blockquote class="blockquote">
  You can fool all of the people some of the time, and some of the people all of the time, but
  you can't fool all of the people all of the time.
  <p class="text-danger text-right blockquote-footer">Abraham Lincoln</p>
</blockquote>
```

## Colors

**Contextual classes** that can be used to provide "meaning through colors".

- |  |
|--|
| 1. .text-muted,                                |
| 2. .text-primary,                              |
| 3. .text-success,                              |
| 4. .text-info,                                 |
| 5. .text-warning,                              |
| 6. .text-danger,                               |
| 7. .text-secondary,                            |
| 8. .text-white,                                |
| 9. .text-dark,                                 |
| 10..text-body (default body color/often black) |
| 11..text-light                                 |

## Background Colors

- |                 |
|-----------------|
| 1. .bg-primary, |
| 2. .bg-success, |
| 3. .bg-info,    |

4. <b>.bg-warning,</b>
5. <b>.bg-danger,</b>
6. <b>.bg-secondary,</b>
7. <b>.bg-dark,</b>
8. <b>.bg-light</b>

**The Bootstrap 4 grid system has five classes:**

- **.col-** (extra small devices - screen width less than 576px)
- **.col-sm-** (small devices - screen width equal to or greater than 576px)
- **.col-md-** (medium devices - screen width equal to or greater than 768px)
- **.col-lg-** (large devices - screen width equal to or greater than 992px)
- **.col-xl-** (xlarge devices - screen width equal to or greater than 1200px)

```
<div class="row">
  <div class="col-*"></div>
  <div class="col-*"></div>
  <div class="col-*"></div>
</div>
```

**Responsive Columns:** Control the column width, and how they should appear on different devices

- **first star (\*)** represents the responsiveness: **sm, md, lg or xl**, while the **second star** represents a **number**, which should add **up to 12** for each row.

```
<div class="row">
  <div class="col-*-*"></div>
  <div class="col-*-*"></div>
</div>
```

## Images

```
 responsive
 Rounded Corners
 circle
 thumbnail
 alignment
 center
```

## Tables

- The **.table** class adds basic styling to a table
- The **.table-striped** class adds zebra-stripes to a table
- The **.table-bordered** class adds borders on all sides of the table and cells
- The **.table-hover** class adds a hover effect (grey background color) on table rows
- The **.table-dark** class adds a black background to the table
- Combine **.table-dark** and **.table-striped** to create a dark, striped table:
- The **.table-hover** class adds a hover effect (grey background color) on table rows:
- The **.table-borderless** class removes borders from the table
  
- The **.thead-dark** class adds a black background to table headers, and the **.thead-light** class adds a grey background to table headers:
  
- The **.table-sm** class makes the table smaller by cutting cell padding in half.

The **contextual classes** that can be used are:

<b>.table-primary</b>	Blue: Indicates an important action
<b>.table-success</b>	Green: Indicates a successful or positive action
<b>.table-danger</b>	Red: Indicates a dangerous or potentially negative action
<b>.table-info</b>	Light blue: Indicates a neutral informative change or action
<b>.table-warning</b>	Orange: Indicates a warning that might need attention
<b>.table-active</b>	Grey: Applies the hover color to the table row or table cell
<b>.table-secondary</b>	Grey: Indicates a slightly less important action
<b>.table-light</b>	Light grey table or table row background
<b>.table-dark</b>	Dark grey table or table row background

### ❖ Responsive Tables

```
<div class="table-responsive">  
  <table class="table">  
    </table>  
</div>
```

...

<b>.table-responsive-sm</b>	< 576px
<b>.table-responsive-md</b>	< 768px
<b>.table-responsive-lg</b>	< 992px
<b>.table-responsive-xl</b>	< 1200px

## Alerts

```
<div class="alert alert-dismissible fade show">  
  <button type="button" class="close" data-dismiss="alert">&times;</button>  
  Alert message  
</div>
```

**fade show** - classes for animation

## Button

.btn
.btn-primary
.btn-secondary
.btn-success
.btn-info
.btn-warning
.btn-danger
.btn-dark
.btn-light
.btn-link

### Button Outline

btn-outline-primary
btn-outline-secondary
btn-outline-success
btn-outline-info
btn-outline-warning
btn-outline-danger
btn-outline-dark
btn-outline-light

### Button Sizes

Use the **.btn-lg** class for large buttons or **.btn-sm** class for small buttons:

### Block Level Buttons

**.btn-block** to create a block level button

## Active/Disabled Buttons

Note that `<a>` elements do not support the **disabled attribute** and must therefore use the **.disabled class** to make it visually appear disabled.

```
<button type="button" class="btn btn-danger active">Active Primary</button>
<button type="button" class="btn btn-danger disabled">Disabled Primary</button>
<a href="#" class="btn btn-danger disabled">Disabled Link</a>
```

## Spinners

### 1. Border Spinner:

```
<div class="spinner-border"></div>
```

### 2. Colored Spinners:

Use any **text color utilites** to add a color to the spinner:

```
<div class="spinner-border text-muted"></div>
```

### 3. Growing Spinners:

```
<div class="spinner-grow text-muted"></div>
```

### 4. inner Size

```
<div class="spinner-border spinner-border-sm"></div>
<div class="spinner-grow spinner-grow-sm"></div>
```

### 5. Spinner Buttons

```
<button class="btn btn-primary" disabled>
  <span class="spinner-border spinner-border-sm"></span>
  Loading..
</button>
```

## Progress Bars

### 1. Different Heights of Progress Bars:

```
<div class="progress" style="height:10px">  
<div class="progress-bar" style="width:40%"></div>  
</div>
```

### 2. Striped Progress Bars:

```
<div class="progress">  
<div class="progress-bar progress-bar-striped" style="width:30%">30%</div>  
</div>
```

### 3. Animated Progress Bars:

```
<div class="progress">  
  <div class="progress-bar bg-warning progress-bar-striped progress-bar-animated"  
    style="width:40%">40%</div>  
</div>
```

### 4. Stacked Progress Bars:

```
<div class="progress">  
  <div class="progress-bar bg-success" style="width:50%">  
    Free Space  
  </div>  
  <div class="progress-bar bg-warning" style="width:20%">  
    Used Space  
  </div>  
  <div class="progress-bar bg-danger" style="width:20%">  
    Danger space  
  </div>  
</div>
```



## Pagination

```
<div class="container m-4">
  <ul class="pagination">
    <li class="page-item disabled"><a class="page-link" href="#">Previous</a></li>
    <li class="page-item"><a class="page-link" href="#">Page 1</a></li>
    <li class="page-item active"><a class="page-link" href="#">Page 2</a></li>
    <li class="page-item"><a class="page-link" href="#">Page 3</a></li>
    <li class="page-item"><a class="page-link" href="#">Page 4</a></li>
    <li class="page-item"><a class="page-link" href="#">Next</a></li>
  </ul>
</div>
```

### Sizing in Pagination:

```
<ul class="pagination pagination-lg" style="margin:20px 0">
</ul>
<ul class="pagination pagination-sm" style="margin:20px 0">
</ul>
```

### Alignment in Pagination:

```
<ul class="pagination justify-content-center" style="margin:20px 0"></ul>
<ul class="pagination justify-content-end" style="margin:20px 0"></ul>
```

## Dropdowns

```
<div class="container m-4">
  <div class="dropdown">
    <button type="button" class="btn btn-success dropdown-toggle" data-
toggle="dropdown">
      Subjects
    </button>
    <div class="dropdown-menu">
      <strong class="dropdown-header">Sem 3</strong>
      <a class="dropdown-item active" href="#">FSD-1</a>
      <a class="dropdown-item disabled" href="#">FCSP-1</a>
      <a class="dropdown-item" href="#">DE</a>
      <a class="dropdown-item" href="#">PS</a>
      <div class="dropdown-divider"></div>
      <strong class="dropdown-header">Sem 4</strong>
      <a class="dropdown-item" href="#">FSD-2</a>
      <a class="dropdown-item disabled" href="#">FCSP-2</a>
      <a class="dropdown-item" href="#">TOC</a>
    </div>
  </div>
</div>
```

### Dropdown Position:

```
<div class="dropright">
<div class="dropleft">
```

### Dropdown Menu Right

```
<div class="dropdown-menu dropdown-menu-right">
```

### Dropup

```
<div class="dropup">
```

### Dropdown Text

```
<p class="dropdown-item-text">DE</p>
<a class="dropdown-item-text" href="#">PS</a>
```

## Collapse

```
<button data-toggle="collapse" data-target="#demo">Collapsible</button>
  <div id="demo" class="collapse">
    Lorem ipsum dolor text....
  </div>
```

**Note:** For <a> elements, you can use the href attribute instead of the data-target attribute:

```
<a href="#demo" data-toggle="collapse">Collapsible</a>
<div id="demo" class="collapse">
  Lorem ipsum dolor text....
</div>
```

By default, the collapsible content is hidden. However, you can add the **.show** class to show the content by default:

```
<div id="demo" class="collapse show">
  Lorem ipsum dolor text....
</div>
```

## Accordion

```
<div id="accordion">

  <div class="card">
    <div class="card-header">
      <a class="card-link" data-toggle="collapse" href="#collapseOne">
        HTML
      </a>
    </div>
    <div id="collapseOne" class="collapse show" data-parent="#accordion">
      <div class="card-body">
        It defines the content and structure of web content.
      </div>
    </div>
  </div>

  <div class="card">
    <div class="card-header">
      <a class="collapsed card-link" data-toggle="collapse" href="#collapseTwo">
        CSS
```

```
</a>
```

```
</div>
```

```
<div id="collapseTwo" class="collapse" data-parent="#accordion">
```

```
<div class="card-body">
```

Cascading Style Sheets is a style sheet language used for specifying the presentation and styling of a document written in a markup language such as HTML or XML.

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="card">
```

```
<div class="card-header">
```

```
<a class="collapsed card-link" data-toggle="collapse" href="#collapseThree">
```

Bootstrap

```
</a>
```

```
</div>
```

```
<div id="collapseThree" class="collapse" data-parent="#accordion">
```

```
<div class="card-body">
```

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development.

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

## Chapter 7

### Navs

```
<ul class="nav">
  <li class="nav-item">
    <a class="nav-link" href="#">Home</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Profile</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Messages</a>
  </li>
  <li class="nav-item">
    <a class="nav-link disabled" href="#">Reports</a>
  </li>
</ul>
```

#### Alignment of Nav Items

- ✓ **.justify-content-center** to align nav items to **center**.
- ✓ **.justify-content-end** to align nav items to **right**.

#### Vertically stack nav items

```
<ul class="nav flex-column">
</ul>
```

#### Justified Tabs/pills

```
<ul class="nav nav-pills nav-justified">..</ul>
<ul class="nav nav-tabs nav-justified">..</ul>
```

## Bootstrap Nav with Dropdown Menus

### Creating Tabs with Dropdowns

```
<ul class="nav nav-tabs">
  <li class="nav-item">
    <a class="nav-link active" href="#">Home</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Profile</a>
  </li>
  <li class="nav-item dropdown">
    <a class="nav-link dropdown-toggle" data-bs-toggle="dropdown"
href="#">Messages</a>
    <ul class="dropdown-menu">
      <li><a class="dropdown-item" href="#">Inbox</a></li>
      <li><a class="dropdown-item" href="#">Sent</a></li>
      <li><a class="dropdown-item" href="#">Drafts</a></li>
    </ul>
  </li>
  <li class="nav-item">
    <a class="nav-link disabled" href="#">Reports</a>
  </li>
</ul>
```

### Creating Pills with Dropdowns

```
<ul class="nav nav-pills">
  <li class="nav-item">
    <a class="nav-link active" href="#">Home</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Profile</a>
  </li>
  <li class="nav-item dropdown">
    <a class="nav-link dropdown-toggle" data-bs-toggle="dropdown"
href="#">Messages</a>
    <ul class="dropdown-menu">
      <li><a class="dropdown-item" href="#">Inbox</a></li>
      <li><a class="dropdown-item" href="#">Sent</a></li>
      <li><a class="dropdown-item" href="#">Drafts</a></li>
    </ul>
  </li>
```

```
<li class="nav-item">
  <a class="nav-link disabled" href="#">Reports</a>
</li>
</ul>
```

## Toggleable / Dynamic Tabs

```
<ul class="nav nav-tabs">
  <li class="nav-item">
    <a class="nav-link active" data-bs-toggle="tab" href="#home">Home</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" data-bs-toggle="tab" href="#profile">Profile</a>
  </li>
  <li class="nav-item dropdown">
    <a class="nav-link" data-bs-toggle="tab" href="#msg">Messages</a>
  </li>
</ul>

<div class="tab-content">
  <div class="tab-pane container active" id="home">
  </div>
  <div class="tab-pane container fade" id="profile">
  </div>
  <div class="tab-pane container fade" id="msg">
  </div>
</div>
```

## Toggleable / Dynamic Pills

```
<ul class="nav nav-pills">
  <li class="nav-item">
    <a class="nav-link active" data-bs-toggle="pill" href="#home">Home</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" data-bs-toggle="pill" href="#profile">Profile</a>
  </li>
  <li class="nav-item dropdown">
    <a class="nav-link" data-bs-toggle="pill" href="#msg">Messages</a>
  </li>
</ul>
```

```
<div class="tab-content">  
  <div class="tab-pane container active" id="home">  
  </div>  
  <div class="tab-pane container fade" id="profile">  
  </div>  
  <div class="tab-pane container fade" id="msg">  
  </div>  
</div>
```



## Navbar

```
<!-- A grey horizontal navbar that becomes vertical on small screens -->
<nav class="navbar navbar-expand-sm bg-light">

  <div class="container-fluid">
    <!-- Links -->
    <ul class="navbar-nav">
      <li class="nav-item">
        <a class="nav-link" href="#">Link 1</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Link 2</a>
      </li>
    </ul>
  </div>
</nav>
```

### Vertical Navbar

Remove the **.navbar-expand-\*** class to create a navigation bar that will always be vertical.

### Centered/Right aligned Navbar

- ✓ Add the **.justify-content-center** class to center the navigation bar:
- ✓ Add the **.justify-content-end** class to right align the navigation bar:

### Collapsible Navbar

```
<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Logo</a>
    <button class="navbar-toggler" data-bs-toggle="collapse" data-bs-target="#nav1">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="nav1">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" href="#">Link</a>
        </li>
```

```

<li class="nav-item">
  <a class="nav-link" href="#">Link</a>
</li>
<li class="nav-item">
  <a class="nav-link" href="#">Link</a>
</li>
</ul>
</div>
</div>
</nav>

```

## Collapsible Navbar With Dropdown

Navbars can also hold dropdown menus:

```

<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
  <div class="container-fluid">
    <!--To add logo -->
    <a class="navbar-brand" href="#"></a>
    <!--To add collapsible button -->
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#collapsibleNavbar">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="collapsibleNavbar">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" href="#">Link 1</a>
        </li>
        <!--To add dropdown -->
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" role="button" data-bs-
toggle="dropdown">Dropdown</a>
          <ul class="dropdown-menu">
            <li><a class="dropdown-item" href="#">Link 1</a></li>
            <li><a class="dropdown-item" href="#">link 2</a></li>
            <li><a class="dropdown-item" href="#">link 3</a></li>
          </ul>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Link 2</a>

```

```
</li>
</ul>
</div>
</div>
</nav>
```

## Fixed Navigation Bar

```
<nav class="navbar navbar-expand-sm bg-dark navbar-dark fixed-top">
</nav>

<nav class="navbar navbar-expand-sm bg-dark navbar-dark fixed-bottom"> </nav>

<nav class="navbar navbar-expand-sm bg-dark navbar-dark sticky-top">
</nav>
```

## Scrollspy

```
<body data-bs-spy="scroll" data-bs-target=".navbar" data-bs-offset="100">

  <nav class="navbar navbar-expand-sm bg-dark navbar-dark fixed-top">
    <div class="container-fluid">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" href="#section1">Section 1</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#section2">Section 2</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#section3">Section 3</a>
        </li>
      </ul>
    </div>
  </nav>

  <div id="section1" class="container-fluid bg-danger text-white" style="padding:250px 20px;">lorem</div>

  <div id="section2" class="container-fluid bg-dark text-white" style="padding:250px 20px;">lorem</div>

  <div id="section3" class="container-fluid bg-secondary text-white" > lorem</div>
</body>
```

# Flex

## Basic Flex Function

```
<div class="d-flex p-3 bg-dark text-white"> </div>
```

## Inline Flex

```
<div class="d-inline-flex p-3 bg-dark text-white"></div>
```

## Horizontal Direction

```
<div class="d-flex flex-row p-3 bg-dark text-white"> </div>
```

```
<div class="d-flex flex-row-reverse"></div>
```

## Vertical Direction

```
<div class="d-flex flex-column"></div>
```

```
<div class="d-flex flex-column-reverse"></div>
```

## Justify Content

```
<div class="d-flex justify-content-start bg-warning mb-3"></div>
```

```
<div class="d-flex justify-content-end bg-warning mb-3"></div>
```

```
<div class="d-flex justify-content-center bg-warning mb-3"></div>
```

```
<div class="d-flex justify-content-between bg-warning mb-3"></div>
```

```
<div class="d-flex justify-content-around bg-warning mb-3"></div>
```

## Fill / Equal Widths

Use **.flex-fill** on flex items to force them into equal widths:

```
<div class="d-flex">
```

```
  <div class="p-2 bg-danger flex-fill">Flex item 1</div>
```

```
  <div class="p-2 bg-warning flex-fill">Flex item 2</div>
```

```
  <div class="p-2 bg-primary flex-fill">Flex item 3</div>
```

```
</div>
```

## Grow

Use **.flex-grow-1** on a flex item **to take up the rest of the space**.

```
<div class="d-flex">
```

```
  <div class="p-2 bg-danger">Flex item 1</div>
```

```
  <div class="p-2 bg-warning flex-grow-1">Flex item 2</div>
```

```
  <div class="p-2 bg-primary">Flex item 3</div>
```

```
</div>
```

## Auto Margins

Easily add auto margins to flex items with `.ms-auto` (push items **to the right**) and `.me-auto` (push items **to the left**):

```
<div class="d-flex bg-dark">
  <div class="p-2 bg-danger text-white me-auto">Flex item 1</div>
  <div class="p-2 bg-warning text-white">Flex item 2</div>
  <div class="p-2 bg-primary text-white">Flex item 3</div>
</div>
```

Flex item 1

Flex item 2

Flex item 3

```
<div class="d-flex bg-dark">
  <div class="p-2 bg-danger text-white">Flex item 1</div>
  <div class="p-2 bg-warning text-white">Flex item 2</div>
  <div class="p-2 bg-primary text-white ms-auto">Flex item 3</div>
</div>
```

Flex item 1

Flex item 2

Flex item 3

## Wrap

Control how flex items wrap in a flex container with `.flex-nowrap` (default), `.flex-wrap` or `.flex-wrap-reverse`.

## Responsive Flex Classes

- ✓ `.flex-*-row`
- ✓ `.flex-*-row-reverse`
- ✓ `.flex-*-column`
- ✓ `.flex-*-column-reverse`
- ✓ `.justify-content-*-start`
- ✓ `.justify-content-*-end`
- ✓ `.justify-content-*-center`
- ✓ `.justify-content-*-between`
- ✓ `.justify-content-*-around`

## Carousel

```
<div class="container">
<!-- Carousel -->
<div id="demo" class="carousel slide" data-bs-ride="carousel">
  <!-- Indicators/dots -->
  <div class="carousel-indicators">
    <button type="button" data-bs-target="#demo" data-bs-slide-to="0"
class="active"></button>
    <button type="button" data-bs-target="#demo" data-bs-slide-to="1"></button>
  </div>

  <!-- The slideshow/carousel -->
  <div class="carousel-inner">
    <div class="carousel-item active">
      
      <!-- Caption -->
      <div class="carousel-caption">
        <h2>To know more about us</h2>
        <button class="btn btn-outline-light">Click here</button>
      </div>
    </div>
    <div class="carousel-item">
      
      <!-- Caption -->
      <div class="carousel-caption bg-dark">
        <h2>We are hiring</h2>
        <button class="btn btn-outline-warning">Click here</button>
      </div>
    </div>
  </div>

  <!-- Left and right controls/icons -->
  <button class="carousel-control-prev" type="button" data-bs-target="#demo" data-bs-
slide="prev">
    <span class="carousel-control-prev-icon"></span>
  </button>
  <button class="carousel-control-next" type="button" data-bs-target="#demo" data-bs-
slide="next">
    <span class="carousel-control-next-icon"></span>
  </button>
</div>
</div>
```

## Modal

```
<!-- Button to Open the Modal -->
<button type="button" class="btn btn-primary" data-bs-toggle="modal" data-bs-
target="#myModal">
  Open modal
</button>
<!-- The Modal -->
<div class="modal" id="myModal">
  <div class="modal-dialog">
    <div class="modal-content">
      <!-- Modal Header -->
      <div class="modal-header">
        <h4 class="modal-title">Modal Heading</h4>
        <button type="button" class="btn-close" data-bs-dismiss="modal"></button>
      </div>
      <!-- Modal body -->
      <div class="modal-body">
        Modal body..
      </div>
      <!-- Modal footer -->
      <div class="modal-footer">
        <button type="button" class="btn btn-danger" data-bs-dismiss="modal">Close</button>
      </div>
    </div>
  </div>
</div>
</div>
```

### Add animation

```
<!-- Fading modal -->
<div class="modal fade"></div>
```

### Modal Size

#### Small Modal

```
<div class="modal-dialog modal-sm">
```

#### Large Modal

```
<div class="modal-dialog modal-lg">
```

#### Extra Large Modal

```
<div class="modal-dialog modal-xl">
```



## Fullscreen Modals

```
<div class="modal-dialog modal-fullscreen">
```

## Centered Modal

```
<div class="modal-dialog modal-dialog-centered">
```

## Scrolling Modal

```
<div class="modal-dialog modal-dialog-scrollable">
```

## Forms

- ✓ All textual form controls, such as `<input>` type `text`, `email`, `password`, `number`, `<textarea>` etc require the class `.form-control` for general styling.
- ✓ `<select>` requires the class `.form-select` for general styling.
- ✓ `<input>` type `checkbox` and `radio` require the classes `.form-check`, `form-check-input`, `form-check-label` for general styling. Use the `checked` attribute if you want the checkbox to be checked by default.
- ✓ These classes also make the forms controls 100% wide.
- ✓ To change their width or use them inline, you can utilize the Bootstrap's predefined grid classes.
- ✓ If you want your `checkbox` to be styled as a `toggle switch`, use the `.form-switch` class together with the `.form-check` container.

```
<div class="form-check form-switch">  
  <label><input type="checkbox" class="form-check-input" checked/>  
  ON/OFF</label>  
</div>
```

```
<div class = "container mt-2 border border-dark">  
  <h5> Contact form </h5>  
  <form action = "#">  
    <!--To add textbox -->  
    <div class = "userid">  
      <label for = "uid" class = "form-label"> User Name: </label>  
      <input type = "text" class = "form-control" id = " uid " placeholder = "Enter user_name"  
name = " uid " required>  
    </div>  
    <!--To add textbox -->  
    <div class = "emailid">  
      <label for = "emid" class = "form-label"> Email Id: </label>  
      <input type = "email" class = "form-control" id = " emid " placeholder = "Enter email_id"  
name = " emid " required>  
    </div>  
    <!--To add textarea -->  
    <div class = "txt">  
      <label for = "txt" class = "form-label"> Message: </label>  
      <textarea class = "form-control" id = "txt" placeholder = "Enter message" name = "txt"  
required></textarea>  
    </div>
```

**<!--To add radio buttons -- >**

```
<div class="gen d-flex">
```

```
<label for = "gender" class = "form-label m-2"> Gender: </label>
```

```
<div class = "form-check m-2">
```

```
<input class = "form-check-input" value="male" type = "radio" name = "gender"
```

```
required>
```

```
<label class = "form-check-label">Male</label>
```

```
</div>
```

```
<div class = "form-check m-2">
```

```
<input class = "form-check-input" value="female" type = "radio" name = "gender"
```

```
required>
```

```
<label class = "form-check-label">Female</label>
```

```
</div>
```

```
</div>
```

**<!--To add dropdown -- >**

```
<div class = "city">
```

```
<label>Select City</label>
```

```
<select class="form-select">
```

```
<optgroup label="Gujarat">
```

```
<option>Ahmedabad</option>
```

```
<option>Gandhinagar</option>
```

```
</optgroup>
```

```
<optgroup label="Rajasthan">
```

```
<option>Jaipur</option>
```

```
</optgroup>
```

```
</select>
```

```
</div>
```

**<!--To add checkbox -- >**

```
<div class = "form-check">
```

```
<input class = "form-check-input" type = "checkbox" id = "Checked" name =
```

```
"remembers" required>
```

```
<label class = "form-check-label" for = "Checked"> I agree</label>
```

```
</div>
```

**<!--To add button -- >**

```
<button type = "submit" class = "btn btn-danger text-light d-block mx-auto my-4"> Submit
```

```
</button>
```

```
</form>
```

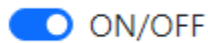
```
</div>
```

**Note:** Kindly note that it is not compulsory to add **name, id, value** etc attributes in **input tag** in exam. Also, **for attribute** is also not compulsory to add in **label tag**.

## Toggle switch

If you want your checkbox to be styled as a toggle switch, use the `.form-switch` class together with the `.form-check` container. Example:

```
<form>
  <div class="form-check form-switch">
    <input class="form-check-input" type="checkbox" id="mySwitch" checked>
    <label class="form-check-label" for="mySwitch">ON/OFF</label>
  </div>
</form>
```



## Form Validations

```
<div class = "container mt-2" >
  <h5> Bootstrap 5 Registration form validations </h5>
  <form action = "#" class = "was-validated">
    <!--Username -->
    <label class = "form-label"> User Name: </label>
    <input type = "text" class = "form-control" placeholder = "Enter user_name"
required>
    <div class = "valid-feedback"> Valid data. </div>
    <div class = "invalid-feedback"> Please fill the user name. </div>

    <!--Email id -->
    <label class = "form-label"> Email Id: </label>
    <input type = "email" class = "form-control" placeholder = "Enter email_id"
required>
    <div class = "valid-feedback"> Valid data. </div>
    <div class = "invalid-feedback"> Please fill the email id. </div>

    <!--Message textarea -->
    <label class = "form-label"> Message: </label>
    <textarea class = "form-control" placeholder = "Enter message" name = "txt"
required></textarea>
    <div class = "valid-feedback"> Valid Message. </div>
    <div class = "invalid-feedback"> Please fill the message. </div>

    <!--Checkbox -->
    <div class = "form-check">
      <input class = "form-check-input" type = "checkbox" name = "remembers" required>
      <label class = "form-check-label" for = "Checked"> I agree</label>
      <div class = "valid-feedback"></div>
      <div class = "invalid-feedback"></div>
    </div>
    <button type = "submit" class = "btn btn-warning d-block mx-auto my-4"> Submit
</button>
  </form>
</div>
```

## Grid Classes

The Bootstrap 5 grid system has six classes:

- ✓ **.col-** (extra small devices - screen width **less than 576px**)
- ✓ **.col-sm-** (small devices - screen width **equal to or greater than 576px**)
- ✓ **.col-md-** (medium devices - screen width **equal to or greater than 768px**)
- ✓ **.col-lg-** (large devices - screen width **equal to or greater than 992px**)
- ✓ **.col-xl-** (xlarge devices - screen width **equal to or greater than 1200px**)
- ✓ **.col-xxl-** (xxlarge devices - screen width **equal to or greater than 1400px**)