MODUL 4

Bootstrap

Tujuan Pembelajaran:

- Siswa memahami konsep bootstrap.
- Siswa memahami pembuatan navigasi dengan bootstrap.
- Siswa memahami pembuatan layouting dengan bootstrap.

1. Pengertian Bootstrap

Bootstrap merupakan salah satu teknologi dalam pemubuatan web yang memudahkan dalam hal desain tampilan website. Bootstrap adalah library atau kumpulan beberapa style CSS yang sering digunakan pada pembuatan halaman web pada umumnya, sehingga designer lebih mudah dalam layouting web page karena hanya tinggal memanggil nama class-class yang telah disediakan. Versi bootstrap yang terbaru adalah Bootstrap 4. Bootstrap juga mendukung halaman web yang responsive sehingga lebih mudah dalam pembuatan layout web untuk desktop maupun perangkat mobile.

2. Penggunaan Bootstrap

Untuk memulai penggunaan bootstrap, kita harus pastikan halaman web yang dibuat telah terkoneksi dengan library bootstrap. Pada modul ini, kita perlu mengunduh library Bootstrap versi 4 dan kita letakkan pada direkrori local kita. Perhatikan contoh berikut ini!

Berdasarkan penggalan script di atas, terdapat beberapa file eksternal yang dihubungkan ke halaman HTML. Sebelum itu, pastikan kita telah mengatur viewport seperti halnya pada pengaturan halaman responsive pada modul sebelumnya. File yang pertama dihubungkan adalah file bootrstrap.min.css. File tersebut merupakan

library dari Bootstrap itu sendiri. Selanjutnya terdapat pemanggilan file jquery.min.js. File tersebut merupakan file yang berisi library javascript yang akan mendukung kinerja bootstrap. Begitu pula dengan fungsi pemanggilan popper.min.js dan bootstrap.min.js, file javascript tersebut yang akan menentukan kinerja dari bootstrap.

Untuk konfigurasi bootstrap cukup dengan penggalan script di atas, selanjutnya untuk pemanfaatan dari bootstrap, silahkan ikuti latihan-latihan di bawah ini dengan seksama.

Latihan Bootstrap Color

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Boostrap Color</title>
  <!-- Load bootstrap css -->
  k rel="stylesheet" href="assets/css/bootstrap.min.css">
 </head>
 <body>
  <div class="container">
    <h5>Text Color in Bootstrap 4</h5>
    <l
     This text using color primary
     This text using color info
     This text using red
     This text using yellow
     This text using green
     This text using color secondary
     <!-- .font-weight-bolder digunakan untuk menjadikan font lebih tebal -->
     class="font-weight-bolder text-dark">This text using dark color and bold
    <h5>Background color in Bootstrap 4</h5>
    <l
     <!-- .mb-3 (margin-bottom:1 rem) -->
     This background using color primary
     This background using color info
     This background using red
     This background using yellow
     This background using green
     This background using color secondary
    </div>
 </body>
/html>
```

Text Color in Bootstrap 4

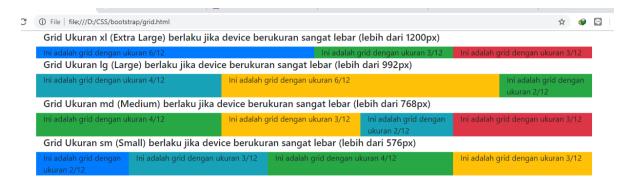
- This text using color primary
- This text using color info
- This text using red
- This text using yellow
- This text using green
- This text using color secondary
- This text using dark color and bold

Background color in Bootstrap 4

- This background using color primary
- This background using color info
- This background using red
- This background using yellow
- This background using green
- This background using color secondary

Latihan Bootstrap Grid

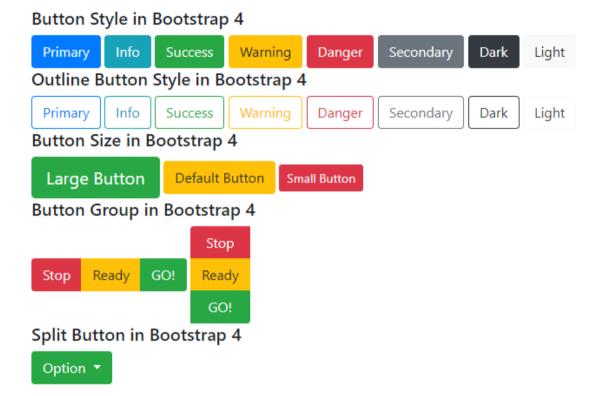
```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
   <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Bootstrap Grid</title>
   <!-- Load bootstrap css -->
   k rel="stylesheet" href="assets/css/bootstrap.min.css">
  <body>
    <div class="container">
      <h5>Grid Ukuran xl (Extra Large) berlaku jika device berukuran
       sangat lebar (lebih dari 1200px)</h5>
     <!-- class row digunakan untuk mengatur agar div berposisi inline (menyamping)
     tanpa class row, div akan berposisi (flow) turun ke bawah -->
      <div class="row">
        <div class="col-xl-6 bg-primary">
         Ini adalah grid dengan ukuran 6/12
        </div>
       <div class="col-x1-3 bg-success">
         Ini adalah grid dengan ukuran 3/12
        </div>
        <div class="col-x1-3 bg-danger">
         Ini adalah grid dengan ukuran 3/12
        </div>
      </div>
      <h5>Grid Ukuran sm (Small) berlaku jika device berukuran
        sangat lebar (lebih dari 576px)</h5>
        <div class="row">
          <div class="col-sm-2 bg-primary">
           Ini adalah grid dengan ukuran 2/12
          <div class="col-sm-3 bg-info">
            Ini adalah grid dengan ukuran 3/12
          </div>
          <div class="col-sm-4 bg-success">
           Ini adalah grid dengan ukuran 4/12
          </div>
          <div class="col-sm-3 bg-warning">
           Ini adalah grid dengan ukuran 3/12
        </div>
    </div>
  </body>
</html>
```



Latihan Bootstrap Button

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
   <meta charset="utf-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Bootstrap Button</title>
   <!-- Load bootstrap css -->
   k rel="stylesheet" href="assets/css/bootstrap.min.css">
   <!-- Load jquery and bootstrap js -->
   <script src="assets/js/jquery.min.js"></script>
   <script src="assets/js/popper.min.js"></script>
   <script src="assets/js/bootstrap.js"></script>
 </head>
 <body>
   <div class="container">
     <h5>Button Style in Bootstrap 4</h5>
     <button type="button" class="btn btn-primary">Primary</button>
     <button type="button" class="btn btn-info">Info</button>
     <button type="button" class="btn btn-success">Success</button>
     <button type="button" class="btn btn-warning">Warning</button>
     <button type="button" class="btn btn-danger">Danger</button>
     <button type="button" class="btn btn-secondary">Secondary</button>
     <button type="button" class="btn btn-dark">Dark</button>
     <button type="button" class="btn btn-light">Light/button>
     <h5>Outline Button Style in Bootstrap 4</h5>
     <button type="button" class="btn btn-outline-primary">Primary</button>
     <button type="button" class="btn btn-outline-info">Info</button>
     <button type="button" class="btn btn-outline-success">Success</button>
     <button type="button" class="btn btn-outline-warning">Warning</button>
     <button type="button" class="btn btn-outline-danger">Danger</button>
     <button type="button" class="btn btn-outline-secondary">Secondary</button>
     <button type="button" class="btn btn-outline-dark">Dark/button>
     <button type="button" class="btn btn-outline-light text-dark">Light/button>
```

```
<h5>Button Size in Bootstrap 4</h5>
     <button type="button" class="btn btn-lg btn-success">Large Button</button>
     <button type="button" class="btn btn-warning">Default Button</button>
     <button type="button" class="btn btn-sm btn-danger">Small Button</button>
     <h5>Button Group in Bootstrap 4</h5>
     <!-- horizontal button group -->
     <div class="btn-group">
       <button type="button" class="btn btn-danger">Stop</button>
       <button type="button" class="btn btn-warning">Ready</button>
       <button type="button" class="btn btn-success">GO!</button>
     </div>
     <!-- vertical button group -->
     <div class="btn-group btn-group-vertical">
       <button type="button" class="btn btn-danger">Stop</button>
       <button type="button" class="btn btn-warning">Ready</button>
       <button type="button" class="btn btn-success">GO!</button>
     <h5>Split Button in Bootstrap 4</h5>
     <div class="btn-group">
       <button type="button" class="btn btn-success dropdown-toggle"</pre>
       data-toggle="dropdown">
         Option
       </button>
       <div class="dropdown-menu">
         <a href="#" class="dropdown-item">Edit</a>
         <a href="#" class="dropdown-item">Hapus</a>
       </div>
     </div>
   </div>
 </body>
</html>
```



Latihan Bootstrap Alert

```
!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
   <meta charset="utf-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Bootstrap Alerts</title>
   <!-- Load bootstrap css -->
   k rel="stylesheet" href="assets/css/bootstrap.min.css">
   <!-- Load jquery and bootstrap js -->
   <script src="assets/js/jquery.min.js"></script>
   <script src="assets/js/popper.min.js"></script>
   <script src="assets/js/bootstrap.js"></script>
 </head>
 <body>
   <div class="container">
     <h5>Alert in Bootstrap 4</h5>
     <div class="alert alert-success">
       <strong>Selamat!</strong>
       Anda diterima di SMK Telkom Malang
     </div>
     <div class="alert alert-info">
       <strong>Penting!</strong>
       Silahkan kunjungi website kami untuk info lebih lanjut
     <div class="alert alert-warning">
       <strong>Warning!</strong>
       Silahkan isi data dengan yang sebenar-benarnya.
     </div>
     <div class="alert alert-danger">
       <strong>Fatal Error!</strong>
      Terjadi kesalahan pada saat transaksi.
     </div>
     <div class="alert alert-primary">
       <strong>Urgent!</strong>
       Mohon baca instruksi dengan seksama.
     </div>
```

```
<div class="alert alert-secondary">
 <strong>Urgent!</strong>
 Mohon baca instruksi dengan seksama.
</div>
<div class="alert alert-dark">
 <strong>Urgent!</strong>
 Mohon baca instruksi dengan seksama.
</div>
<div class="alert alert-light">
 <strong>Urgent!</strong>
 Mohon baca instruksi dengan seksama.
</div>
<h5>Dismissable Alert in Bootstrap 4</h5>
<div class="alert alert-success alert-dismissible">
 <button type="button" class="close" data-dismiss="alert">&times;</button>
 <strong>Selamat!</strong>
 Anda diterima di SMK Telkom Malang
</div>
<div class="alert alert-info alert-dismissible">
 <button type="button" class="close" data-dismiss="alert">&times;</button>
  <strong>Penting!</strong>
  Silahkan kunjungi website kami untuk info lebih lanjut
</div>
```

```
<div class="alert alert-warning alert-dismissible">
       <button type="button" class="close" data-dismiss="alert">&times;</button>
       <strong>Warning!</strong>
       Silahkan isi data dengan yang sebenar-benarnya.
      </div>
      <div class="alert alert-danger alert-dismissible">
       <button type="button" class="close" data-dismiss="alert">&times;</button>
       <strong>Fatal Error!</strong>
       Terjadi kesalahan pada saat transaksi.
     <div class="alert alert-primary alert-dismissible">
       <button type="button" class="close" data-dismiss="alert">&times;</button>
       <strong>Urgent!</strong>
       Mohon baca instruksi dengan seksama.
     </div>
     <div class="alert alert-secondary alert-dismissible">
       <button type="button" class="close" data-dismiss="alert">&times;</button>
       <strong>Urgent!</strong>
       Mohon baca instruksi dengan seksama.
      </div>
     <div class="alert alert-dark alert-dismissible">
       <button type="button" class="close" data-dismiss="alert">&times;</button>
       <strong>Urgent!</strong>
       Mohon baca instruksi dengan seksama.
     </div>
     <div class="alert alert-light alert-dismissible">
       <button type="button" class="close" data-dismiss="alert">&times;</button>
       <strong>Urgent!</strong>
       Mohon baca instruksi dengan seksama.
     </div>
    </div>
  </body>
</html>
```

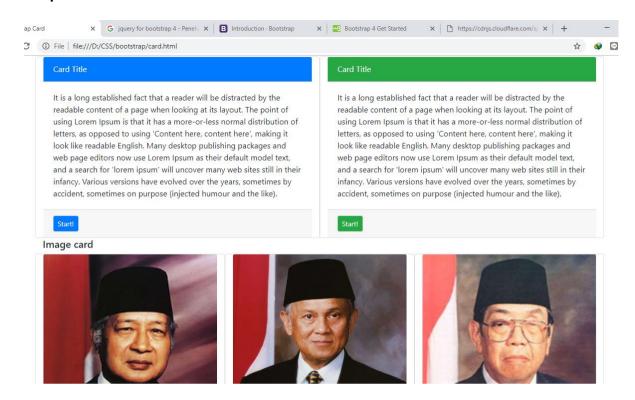
Alert in Bootstrap 4 Selamat! Anda diterima di SMK Telkom Malang Penting! Silahkan kunjungi website kami untuk info lebih lanjut Warning! Silahkan isi data dengan yang sebenar-benarnya. Fatal Error! Terjadi kesalahan pada saat transaksi. Urgent! Mohon baca instruksi dengan seksama. Urgent! Mohon baca instruksi dengan seksama. Urgent! Mohon baca instruksi dengan seksama. Dismissable Alert in Bootstrap 4 Selamat! Anda diterima di SMK Telkom Malang

Latihan Bootstrap Card

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bootstrap Card</title>
    <!-- Load bootstrap css -->
    <link rel="stylesheet" href="assets/css/bootstrap.min.css">
    <!-- Load jquery and bootstrap js -->
    <script src="assets/js/jquery.min.js"></script>
    <script src="assets/js/popper.min.js"></script>
    <script src="assets/js/bootstrap.js"></script>
  </head>
  <body>
    <div class="container">
      <h5>Basic Card</h5>
      <div class="row">
        <div class="card col-sm-6">
          <!-- card header -->
          <div class="card-header bg-primary text-white">
           Card Title
          </div>
          <!-- card body -->
          <div class="card-body">
            It is a long established fact that a reader will
            be distracted by the readable content of a page
           when looking at its layout. The point of using
           Lorem Ipsum is that it has a more-or-less normal
            distribution of letters, as opposed to using
            'Content here, content here', making it look like
            readable English. Many desktop publishing packages
            and web page editors now use Lorem Ipsum as their
            default model text, and a search for 'lorem ipsum'
            will uncover many web sites still in their infancy.
            Various versions have evolved over the years, sometimes
            by accident, sometimes on purpose (injected humour and
            the like).
          </div>
```

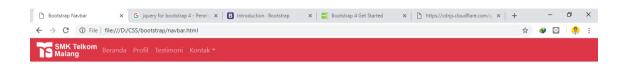
```
<!-- card footer -->
   <div class="card-footer">
     <button type="button" class="btn btn-sm btn-primary">Start!</button>
   </div>
 </div>
 <div class="card col-sm-6">
   <!-- card header -->
   <div class="card-header bg-success text-white">
     Card Title
   </div>
   <!-- card body -->
   <div class="card-body">
     It is a long established fact that a reader will
     be distracted by the readable content of a page
     when looking at its layout. The point of using
     Lorem Ipsum is that it has a more-or-less normal
     distribution of letters, as opposed to using
     'Content here, content here', making it look like
     readable English. Many desktop publishing packages
     and web page editors now use Lorem Ipsum as their
     default model text, and a search for 'lorem ipsum'
     will uncover many web sites still in their infancy.
     Various versions have evolved over the years, sometimes
     by accident, sometimes on purpose (injected humour and
     the like).
   </div>
   <!-- card footer -->
   <div class="card-footer">
     <button type="button" class="btn btn-sm btn-success">Start!</button>
   </div>
 </div>
</div>
```

```
<h5>Image card</h5>
     <div class="row">
       <div class="card col-md-4">
         <img src="../soeharto.jpg" class="card-img-top">
         <div class="card-header bg-info text-white">Soeharto</div>
         <div class="card-body">
           Soeharto adalah presiden RI yang ke 2
         </div>
         <div class="card-footer">
           <button type="button" class="btn btn-sm btn-info">Follow</button>
       </div>
       <div class="card col-md-4">
         <img src="../habibi.jpg" class="card-img-top">
         <div class="card-header bg-info text-white">BJ Habibie</div>
         <div class="card-body">
           BJ Habibie adalah presiden RI yang ke 3
         </div>
         <div class="card-footer">
           <button type="button" class="btn btn-sm btn-info">Follow</button>
         </div>
       </div>
       <div class="card col-md-4">
         <img src="../gusdur.jpg" class="card-img-top">
         <div class="card-header bg-info text-white">KH. Abdurrahman Wahid</div>
         <div class="card-body">
           Gusdur adalah presiden RI yang ke 4
         </div>
         <div class="card-footer">
           <button type="button" class="btn btn-sm btn-info">Follow</button>
         </div>
       </div>
     </div>
   </div>
 </body>
</html>
```

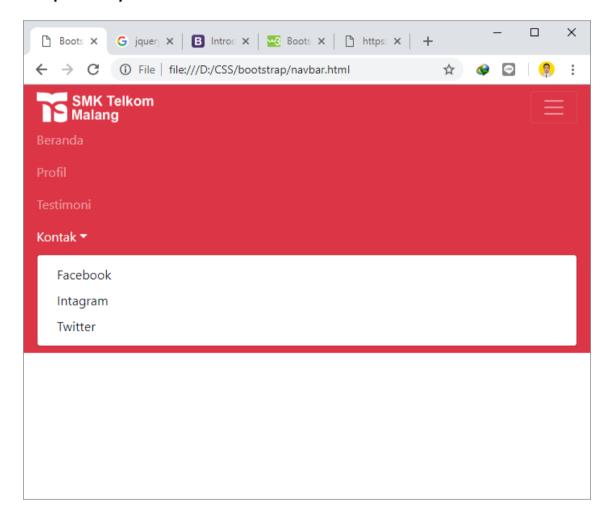


Latihan Navigation Bar

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bootstrap Navbar</title>
    <!-- Load bootstrap css -->
    <link rel="stylesheet" href="assets/css/bootstrap.min.css">
    <!-- Load jquery and bootstrap js -->
    <script src="assets/js/jquery.min.js"></script>
    <script src="assets/js/popper.min.js"></script>
    <script src="assets/js/bootstrap.js"></script>
  </head>
  <body>
    <nav class="navbar navbar-expand-md bg-danger navbar-dark fixed-top">
     11--
     navbar-expand-md -> menu akan dihidden ketika tampilan device berukuran Medium
     bg-danger -> navbar akan mempunyai background warna merah
     navbar-dark -> tulisan menu pada navbar akan lebih gelap
     fixed-top -> navbar akan berposisi SELALU DI AATAS -->
     <a href="#">
       <img src="../logo_putih.png" width="150" alt="">
      </a>
      <!-- pemnaggilan icon menu saat menubar disembunyikan -->
      <button type="button" class="naybar-toggler" data-toggle="collapse" data-target="#menu">
       <span class="navbar navbar-toggler-icon"></span>
      </button>
     <!-- daftar menu pada navbar -->
     <div class="collapse navbar-collapse" id="menu">
       <a href="#" class="nav-link">Beranda</a>
        <a href="#" class="nav-link">Profil</a>
        <a href="#" class="nav-link">Testimoni</a>
        <a href="#" class="nav-link dropdown-toggle" id="kontak" data-toggle="dropdown">Kontak</a>
          <div class="dropdown-menu">
            <a href="#" class="dropdown-item">Facebook</a>
            <a href="#" class="dropdown-item">Intagram</a>
            <a href="#" class="dropdown-item">Twitter</a>
          </div>
        </div>
   </nav>
 </body>
</html>
```



Tampilan Responsive



Latihan Bootstrap Slider

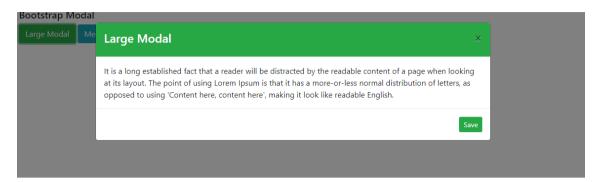
```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 cheads
   <meta charset="utf-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Bootstrap Slide</title>
   <!-- Load bootstrap css -->
   <link rel="stylesheet" href="assets/css/bootstrap.min.css">
   <!-- Load jquery and bootstrap js -->
   <script src="assets/js/jquery.min.js"></script>
   <script src="assets/js/popper.min.js"></script>
   <script src="assets/js/bootstrap.js"></script>
 </head>
 <body>
   <div class="container">
     <div class="carousel slide" data-ride="carousel" id="slide">
      <!-- indikator slide -->
      <!-- class active berarti elemen tersebut yang pertama kali ditampilkan saat Load halaman -->
        data-target="#slide" data-slide-to="2">
      <!-- gambar slide -->
      <div class="carousel-inner">
        <div class="carousel-item active">
          <img src="../gedung.jpg" width="100%" height="500" alt="">
        </div>
        <div class="carousel-item">
          <img src="../prestasi.jpg" width="100%" height="500" alt="">
        </div>
        <div class="carousel-item">
          <img src="../hero.jpg" width="100%" height="500" alt="">
        </div>
       </div>
        <!-- navigasi sLide -->
        <a href="#slide" data-slide="prev" class="carousel-control-prev">
          <span class="carousel-control-prev-icon"></span>
        </a>
        <a href="#slide" data-slide="next" class="carousel-control-next">
          <span class="carousel-control-next-icon"></span>
        </a>
      </div>
    </div>
  </body>
</html>
```

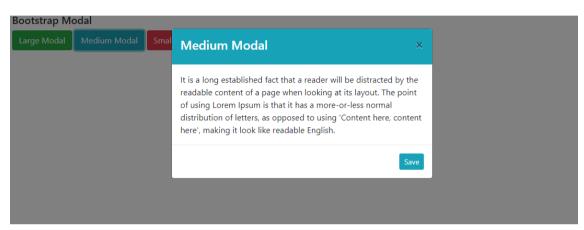


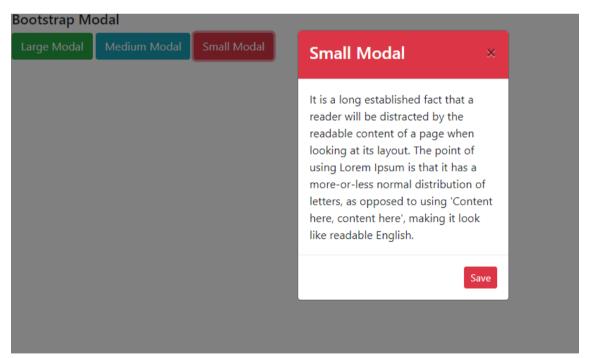
Latihan Bootstrap Modal

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
   <meta charset="utf-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Bootstrap Modal</title>
   <!-- Load bootstrap css -->
   k rel="stylesheet" href="assets/css/bootstrap.min.css">
   <!-- Load jquery and bootstrap js -->
   <script src="assets/js/jquery.min.js"></script>
   <script src="assets/js/popper.min.js"></script>
   <script src="assets/js/bootstrap.js"></script>
  </head>
  <body>
   <div class="container">
      <h5>Bootstrap Modal</h5>
     <button type="button" class="btn btn-success" data-toggle="modal" data-target="#largeModal">
       Large Modal
      </button>
     <button type="button" class="btn btn-info" data-toggle="modal" data-target="#mediumModal">
      </button>
     <button type="button" class="btn btn-danger" data-toggle="modal" data-target="#smallModal">
       Small Modal
     </button>
   </div>
   <!-- modal Large -->
   <div class="modal fade" id="largeModal">
     <div class="modal-dialog modal-lg">
       <div class="modal-content">
         <div class="modal-header bg-success text-white">
            <h4>Large Modal</h4>
            <span class="close" data-dismiss="modal">&times;</span>
         c/divs
          <div class="modal-body">
           It is a long established fact that a reader will
           be distracted by the readable content of a page
           when looking at its layout. The point of using
           Lorem Ipsum is that it has a more-or-less normal
           distribution of letters, as opposed to using
            'Content here, content here', making it look like
            readable English.
          </div>
         <div class="modal-footer">
            <button type="button" class="btn btn-sm btn-success">Save</button>
          </div>
        </div>
     </div>
   </div>
```

```
<!-- modal medium -->
 <div class="modal fade" id="mediumModal">
   <div class="modal-dialog modal-md">
     <div class="modal-content">
        <div class="modal-header bg-info text-white">
         <h4>Medium Modal</h4>
         <span class="close" data-dismiss="modal">&times;</span>
       </div>
       <div class="modal-body">
         It is a long established fact that a reader will
         be distracted by the readable content of a page
         when looking at its layout. The point of using
         Lorem Ipsum is that it has a more-or-less normal
         distribution of letters, as opposed to using
         'Content here, content here', making it look like
         readable English.
       c/divs
        <div class="modal-footer">
         <button type="button" class="btn btn-sm btn-info">Save</button>
       </div>
     </div>
    </div>
 </div>
   <!-- modal small -->
   <div class="modal fade" id="smallModal">
     <div class="modal-dialog modal-sm">
       <div class="modal-content">
         <div class="modal-header bg-danger text-white">
           <h4>Small Modal</h4>
           <span class="close" data-dismiss="modal">&times;</span>
         <div class="modal-body">
           It is a long established fact that a reader will
           be distracted by the readable content of a page
           when looking at its layout. The point of using
           Lorem Ipsum is that it has a more-or-less normal
           distribution of letters, as opposed to using
           'Content here, content here', making it look like
           readable English.
         </div>
         <div class="modal-footer">
           <button type="button" class="btn btn-sm btn-danger">Save</button>
         </div>
       </div>
     </div>
   </div>
 </body>
:/html>
```







Latihan Bootstrap Table

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bootstrap Table</title>
  <!-- Load bootstrap css -->
  k rel="stylesheet" href="assets/css/bootstrap.min.css">
  <!-- Load jquery and bootstrap js -->
  <script src="assets/js/jquery.min.js"></script>
  <script src="assets/js/popper.min.js"></script>
  <script src="assets/js/bootstrap.js"></script>
 </head>
 <body>
  <div class="container">
    <h5>Default Bootstrap Table</h5>
    <thead>
         Merk
         Pengguna
       </thead>
      Asus
         1200k
       Dell
         1150k
       Lenovo
         2000k
```

```
<h5>Striped Bootstrap Table</h5>
<thead>
 Merk
  Pengguna
 </thead>
Asus
  1200k
 ktrx
  Dell
  1150k
 Lenovo
  2000k
 <h5>Bordered and Hover Bootstrap Table</h5>
<thead>
 Merk
  Pengguna
 </thead>
Asus
  1200k
 ktr>
  Dell
  1150k
 Lenovo
 2000k
```

```
<h5>Contextual Bootstrap Table</h5>
  <thead>
   Merk
   Pengguna
   </thead>
  Asus
   1200k
   Dell
   1150k
   Lenovo
   2000k
   </div>
</body>
</html>
```

