Praktikum 6

KONSEP FUNDAMENTAL CSS DAN FRAMEWORK

A. TUJUAN PEMBELAJARAN

- 1. Mahasiswa memahami fundamental dari CSS
- 2. Mahasiswa mampu menggunakan framework CSS

B. DASAR TEORI

a. CSS

Cascading Style Sheet (CSS) merupakan aturan untuk mengendalikan beberapa komponen dalam sebuah web sehingga akan lebih terstruktur dan seragam. CSS bukan merupakan bahasa pemograman. CSS dapat mengatur beberapa style, misalnya heading, subbab, bodytext, footer, images, dan style lainnya untuk dapat digunakan bersama-sama dalam beberapa berkas (file). Pada umumnya CSS dipakai untuk memformat tampilan halaman web yang dibuat dengan bahasa HTML dan XHTML. CSS dapat mengendalikanukuran gambar, warna bagian tubuh pada teks, warna tabel, ukuran border, warna border, warna hyperlink, warna mouse over, spasi antar paragraf, spasi antar teks, margin kiri, kanan, atas, bawah, dan parameter lainnya. CSS adalah bahasa style sheet yang digunakan untuk mengatur tampilan dokumen. Dengan adanya CSS memungkinkan kita untuk menampilkan halaman yang sama dengan format yang berbeda.

C. TUGAS PENDAHULUAN

1. Lakukan Instalasi bootstrap terlebih dahulu!

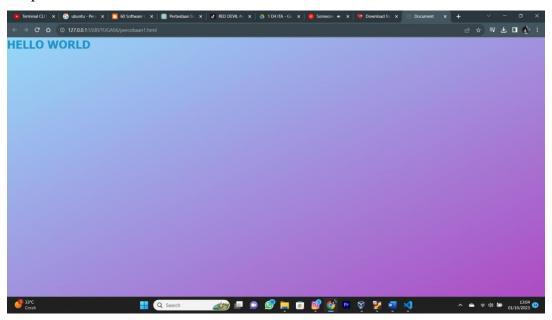
D. PERCOBAAN

1. Percobaan 1: Hello World CSS

Input: HTML:

CSS:

```
body{
    margin: 0px;
    background-image: linear-gradient(to bottom right, #95d9f9, #ae4bc3);
    background-size: cover;
}
h1 {
    color: #1b95cd;
    font-family: tahoma, sans-serif;
    size: 400px;
}
```



Analisa: Program berikut merupakan program html sederhana yang menampilkan web dengan tulisan hello world dan background gradasi warna yang diatur dengan css.

2. Percobaan 2: CSS Background

Input;

```
<!DOCTYPE html>
<html>
    <style>
     #example1 {
       width: 40%;
       padding: 15px;
       background-image: url("https://www.w3schools.com/Jsref/img_flwr.gif"),
       url("http://www.lecturemaker.com/wp-
content/uploads/2013/07/HP_paper.gif");
       background-position: right bottom, left top;
       background-repeat: no-repeat, repeat;
    </style>
  </head>
  <body>
    <h1>Flower Market</h1>
   the following div element has two background images
    <div id="example1">
      <h1>Fresh and Beautiful Flower</h1>
     We sell many kinds of flower, likes zinia, lavender, english ivi,
orchid,
       jasmine, majoram, rose etc.
      Rose is a flower with strong scent that could gave us positive
vibes
   </div>
 </body>
</html>
```



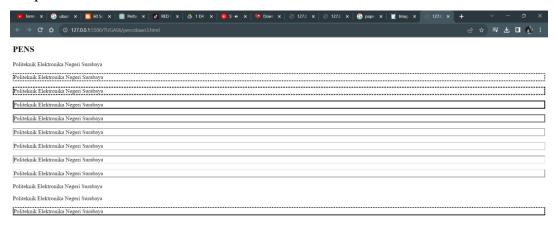


Program tersebut merupakan program web sederhana yang mencakup sebuah teks pendek dengan background 2 gambar dengan format css yang berbeda.

3. Percobaan 3: CSS Borders

```
border-style: double;
      .groove {
         border-style: groove;
      .ridge {
         border-style: ridge;
      .inset {
         border-style: inset;
      .outset {
         border-style: outset;
      .none {
         border-style: none;
      .hidden {
         border-style: hidden;
      .mix {
         border-style: dotted dashed solid double;
  </style>
</head>
<body>
  <h2>PENS</h2>
   Politeknik Elektronika Negeri Surabaya
  Politeknik Elektronika Negeri Surabaya
   Politeknik Elektronika Negeri Surabaya
   Politeknik Elektronika Negeri Surabaya
   Politeknik Elektronika Negeri Surabaya
   Politeknik Elektronika Negeri Surabaya
   Politeknik Elektronika Negeri Surabaya
   Politeknik Elektronika Negeri Surabaya
   Politeknik Elektronika Negeri Surabaya
  Politeknik Elektronika Negeri Surabaya
```

```
Politeknik Elektronika Negeri Surabaya
Politeknik Elektronika Negeri Surabaya
</body>
</html>
```





Analisa: Program tersebut program web sederhana yang terdapat tag paragraph yang dibungkus dengan border yang berbeda tiap barisnya dan ada juga border yang dikombinasikan antarjenisnya.

4. Percobaan 4 : Bootstrap Access Input :



Hello, world!



Analisa:

Program tersebut merupakan contoh program web sederhana dengan sudah dikaitkan dengan salah satu frame work CSS, Bootstrap,

5. Percobaan 5 : Bootstrap ContainersInput :

```
k
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/css/bootstrap.min.css"
rel="stylesheet">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle.min.
js"></script>
</head>
   <body>
    <div class="container">
       <h1>Bootstrap Pertamaku</h1>
       Ini adalah bagian dari kelas Container
       The .container class provides a responsive fixed width
container.
       Resize the browser window to see that the container width will
change at different breakpoints.
    </div>
    </body>
</html>
```





Analisa:

Program tersebut merupakan program web sederhana yang menampilkan perintah dengan framework bootstrap sebagai style nya. Container yang digunakan merupakan container biasa yang responsive terhadap ukuran layer (otomatis rapi saat dibuka di device yang berbeda)

6. Percobaan 6: Bootstrap Grid

Input:

```
<!DOCTYPE html>
<html lang="en">
   <title>Bootstrap Example</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    k
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/css/bootstrap.min.css"
rel="stylesheet">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle.min.
js"></script>
</head>
    <body>
    <div class="container-fluid mt-3">
        <h1>PENS</h1>
        D4 Teknik Informatika
        The columns will automatically stack on top of each other when the
screen is less than 576px wide.
        <div class="row">
            <div class="col-sm-3 p-3 bg-primary text-white">Nama</div>
           <div class="col-sm-3 p-3 bg-dark text-white">NRP</div>
            <div class="col-sm-3 p-3 bg-primary text-white">Alamat</div>
            <div class="col-sm-3 p-3 bg-dark text-white">Kelas</div>
        </div>
    </div>
    </body>
</html>
```



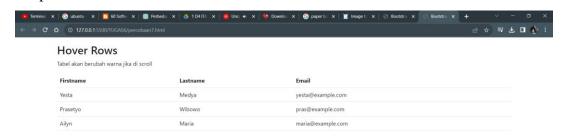


Program tersebut merupakan program web sederhana yang memuat tah h1sebagai header dan dibawahnya terdapat kolom kolom yang responsive terhadap layer, apabila layer kurang dari 576 pixel maka kolom tersebut akan otomatis menjadi baris.

7. Percobaan 7 : Bootstrap Table

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <title>Bootstrap Example</title>
   <meta charset="utf-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1" />
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/css/bootstrap.min.css"
rel="stylesheet" />
   <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle.min.
js"></script>
 </head>
 <body>
   <div class="container mt-3">
     <h2>Hover Rows</h2>
     Tabel akan berubah warna jika di scroll
     <thead>
```

```
Firstname
     Lastname
     Email
    </thead>
   Yesta
     Medya
     yesta@example.com
    Prasetyo
     Wibowo
     pras@example.com
    Ailyn
     Maria
     maria@example.com
    </div>
</body>
</html>
```



Program tersebut merupakan program web sederhana yang menggunakan framework bootstrap sebagai CSS nya. Program menampilkan tabel dengan salah satu pseudocode nya (hover) diberi style sendiri.

8. Percobaan 8 : Bootstrap Jumbotron Input :

```
<!DOCTYPE html>
<html>
<head>
    <meta name="viewport" content="width=device-width, initial-scale=1">
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/css/bootstrap.min.css"
rel="stylesheet">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle.min.
js"></script>
</head>
<body>
    <div class="container mt-3">
       <h2>Example of Jumbotron</h2>
       <div class="mt-4 p-5 bg-primary text-white rounded">
            <h1>Politeknik Elektronika Negeri Surabaya</h1>
            The early history of PENS began in 1984. The Japan International
Cooperation Agency (JICA), an
                international cooperation
                agency established by the Japanese government in 1974 to assist
the development of developing countries,
                plans to build polytechnic education in Indonesia and provide
grants for polytechnic development.
       </div>
   </div>
</body>
</html>
```



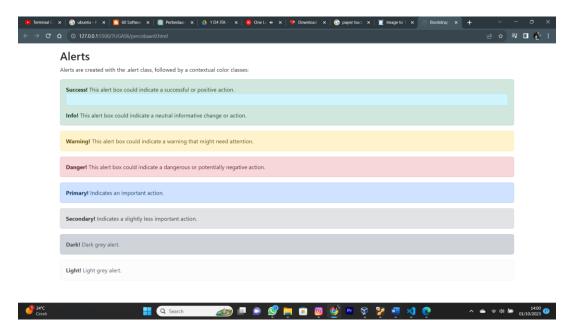


Program tersebut merupakan program web HTML sederhana dengan framework CSS bootstrap yang menampilkan sebuah jumbotron dengan tag h1 dan paragraf sebagai kontennya, serta diberi background primary (biru), teks berwarna putih, dan ujung sudut kontainer nya tumpul.

9. Percobaan 9 : Bootstrap Alert Input :

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>Bootstrap Example</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    k
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/css/bootstrap.min.css"
rel="stylesheet">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle.min.
js"></script>
</head>
<body>
    <div class="container mt-3">
        <h2>Alerts</h2>
```

```
Alerts are created with the .alert class, followed by a contextual
color classes:
        <div class="alert alert-success">
            <strong>Success!</strong> This alert box could indicate a
successful or positive action. <div
                class="alert alert-info">
            <strong>Info!</strong> This alert box could indicate a neutral
informative change or action.
        </div>
        <div class="alert alert-warning">
            <strong>Warning!</strong> This alert box could indicate a warning
that might need attention.
        </div>
        <div class="alert alert-danger">
            <strong>Danger!</strong> This alert box could indicate a dangerous
or potentially negative action.
        </div>
        <div class="alert alert-primary">
            <strong>Primary!</strong> Indicates an important action.
        </div>
        <div class="alert alert-secondary">
            <strong>Secondary!</strong> Indicates a slightly less important
action.
        </div>
        <div class="alert alert-dark">
            <strong>Dark!</strong> Dark grey alert.
        </div>
        <div class="alert alert-light">
            <strong>Light!</strong> Light grey alert.
        </div>
    </div>
</body>
</html>
```



Program tersebut merupakan program web HTML sederhana yang menggunakan bootstrap sebagai framework css nya. Program menampilkan macam macam warna utama pada bootstrap yang direpresentasikan dengan perintah tertentu.

10. Percobaan 10 : Bootstrap Button

```
<!DOCTYPE html>
<html lang="en">
   <title>Bootstrap Example</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    k
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/css/bootstrap.min.css"
rel="stylesheet">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle.min.
js"></script>
</head>
<body>
    <div class="container mt-3">
        <h2>Button Elements</h2>
        <a href="#" class="btn btn-success">Link Button</a>
```





Analisa:

Program tersebut merupakan program web HTML sederhana yang menggunakan bootstrap sebagai framework css nya. Program menampilkan salah satu tag pada HTML dengan bootstrap yaitu button.

TUGAS:

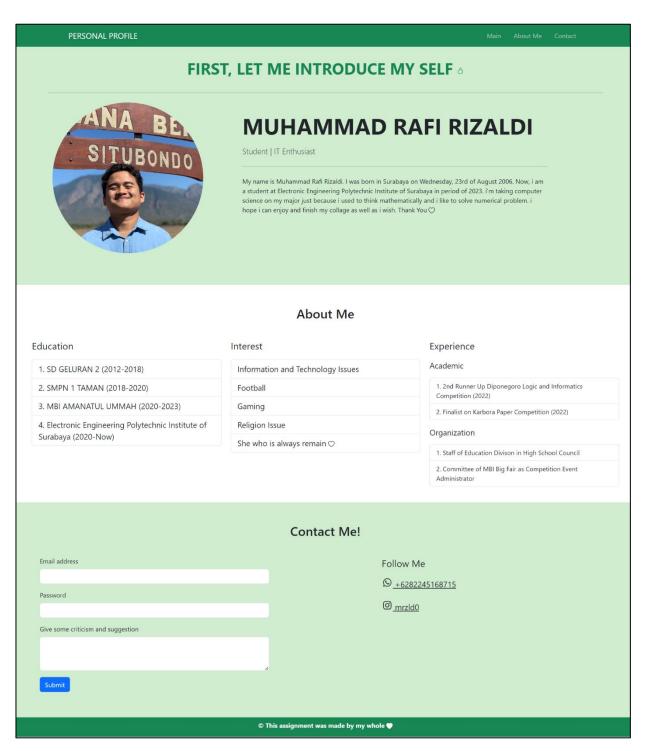
```
<link href="https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css"</pre>
rel="stylesheet" />
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle.min.
is"></script>
    <style>
      .jumbotron {
        padding: 5rem;
      footer {
        height: 50px;
    </style>
  </head>
  <body>
    <section id="navbar">
      <nav class="navbar navbar-expand-lg bg-success text-white navbar-dark"><nav class="navbar navbar-expand-lg bg-success text-white navbar-dark"><nav class="navbar navbar navbar-expand-lg bg-success text-white navbar-dark">
fixed-top">
        <div class="container">
          <a class="navbar-brand" href="#">PERSONAL PROFILE</a>
          <button class="navbar-toggler" type="button" data-bs-</pre>
toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-
expanded="false" aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
          </button>
          <div class="collapse navbar-collapse" id="navbarNav">
            <a class="nav-link active" aria-current="page"</pre>
href="#">Main</a>
              <a class="nav-link" href="#about">About Me</a>
              <a class="nav-link" href="#contact">Contact</a>
              </div>
        </div>
      </nav>
    </section>
    <!-- MAIN -->
    <section id="main">
      <div class="jumbotron" style="background-color: rgb(208, 237, 207)">
```

```
<div class="row">
         FIRST, LET ME INTRODUCE MY SELF
           <svg xmlns="http://www.w3.org/2000/svg" width="16" height="16"</pre>
fill="currentColor" class="bi bi-hand-thumbs-up" viewBox="0 0 16 16">
             <path
               d="M8.864.046C7.908-.193 7.02.53 6.956 1.466c-.072 1.051-.23
2.016-.428 2.59-.125.36-.479 1.013-1.04 1.639-.557.623-1.282 1.178-2.131
1.41C2.685 7.288 2 7.87 2 8.72v4.001c0 .845.682 1.464 1.448 1.545 1.07.114
1.564.415 2.068.7231.048.03c.272.165.578.348.97.484.397.136.861.217
1.466.217h3.5c.937 0 1.599-.477 1.934-1.064a1.86 1.86 0 0 0 .254-.912c0-.152-
.023-.312-.077-.464.201-.263.38-.578.488-.901.11-.33.172-.762.004-1.149.069-
.13.12-.269.159-.403.077-.27.113-.568.113-.857 0-.288-.036-.585-.113-.856a2.144
2.144 0 0 0-.138-.362 1.9 1.9 0 0 0 .234-1.734c-.206-.592-.682-1.1-1.2-1.272-
.847-.282-1.803-.276-2.516-.211a9.84 9.84 0 0 0-.443.05 9.365 9.365 0 0 0-.062-
4.509A1.38 1.38 0 0 0 9.125.111L8.864.046zM11.5 14.721H8c-.51 0-.863-.069-1.14-
.164-.281-.097-.506-.228-.776-.3931-.04-.024c-.555-.339-1.198-.731-2.49-.868-
.333-.036-.554-.29-.554-.55V8.72c0-.254.226-.543.62-.65 1.095-.3 1.977-.996
2.614-1.708.635-.71 1.064-1.475 1.238-1.978.243-.7.407-1.768.482-2.85.025-
.362.36-.594.667-.5181.262.066c.16.04.258.143.288.255a8.34 8.34 0 0 1-.145
4.725.5.5 0 0 0 .595.6441.003-.001.014-.003.058-.014a8.908 8.908 0 0 1 1.036-
.157c.663-.06 1.457-.054 2.11.164.175.058.45.3.57.65.107.308.087.67-.266
1.0221-.353.353.353.354c.043.043.105.141.154.315.048.167.075.37.075.581 0 .212-
.027.414-.075.582-.05.174-.111.272-.154.3151-
.353.353.353.354c.047.047.109.177.005.488a2.224 2.224 0 0 1-.505.805l-
.503.56-1.066.56z"
           </svg>
         <hr class="mb-4" />
       </div>
       <div class="row">
         <div class="col-md-4">
           <img src="aku.jpg" class="rounded-circle" width="380" alt="" />
         </div>
         <div class="col-md-7 me-4 p-5">
           <hl class="display-4 fw-bolder mb-3">MUHAMMAD RAFI RIZALDI</hl>
           Student | IT Enthusiast
           <hr class="my-4" />
             My name is Muhammad Rafi Rizaldi. I was born in Surabaya on
Wednesday, 23rd of August 2006. Now, i am a student at Electronic Engineering
Polytechnic Institute of Surabaya in period of
```

```
2023. i'm taking computer science on my major just because i used
to think mathematically and i like to solve numerical problem. i hope i can
enjoy and finish my collage as well as i
          wish. Thank You
          <svg xmlns="http://www.w3.org/2000/svg" width="16" height="16"</pre>
fill="currentColor" class="bi bi-heart" viewBox="0 0 16 16">
           <path</pre>
             d="m8 2.748-.717-.737C5.6.281 2.514.878 1.4 3.053c-.523
1.023-.641 2.5.314 4.385.92 1.815 2.834 3.989 6.286 6.357 3.452-2.368 5.365-
4.542 6.286-6.357.955-1.886.838-3.362.314-4.385C13.486.878 10.4.28 8.717 2.01L8
2.748zM8 15C-7.333 4.868 3.279-3.04 7.824 1.143c.06.055.119.112.176.171a3.12
3.12 0 0 1 .176-.17C12.72-3.042 23.333 4.867 8 15z"
          </svg>
        </div>
     </div>
    </div>
   </section>
   <!-- ABOUT -->
  <section id="about">
    <div class="row pt-5 pb-4">
     About Me
    </div>
    <div class="row justify-content-evenly mx-3">
     <div class="col-4">
       Education
       SD GELURAN 2 (2012-2018)
        SMPN 1 TAMAN (2018-2020)
        MBI AMANATUL UMMAH (2020-2023)
        Electronic Engineering Polytechnic
Institute of Surabaya (2020-Now)
       </div>
     <div class="col-4">
       Interest
       Information and Technology Issues
        Football
        Gaming
        Religion Issue
        She who is always remain
```

```
<svg xmlns="http://www.w3.org/2000/svg" width="16" height="16"</pre>
fill="currentColor" class="bi bi-heart" viewBox="0 0 16 16">
            <path
             d="m8 2.748-.717-.737C5.6.281 2.514.878 1.4 3.053c-.523
1.023-.641 2.5.314 4.385.92 1.815 2.834 3.989 6.286 6.357 3.452-2.368 5.365-
4.542 6.286-6.357.955-1.886.838-3.362.314-4.385C13.486.878 10.4.28 8.717 2.01L8
2.748zM8 15C-7.333 4.868 3.279-3.04 7.824 1.143c.06.055.119.112.176.171a3.12
3.12 0 0 1 .176-.17C12.72-3.042 23.333 4.867 8 15z"
          </svg>
        </div>
      <div class="col-4 mb-4">
       Experience
       Academic
        2nd Runner Up Diponegoro Logic and
Informatics Competition (2022)
          Finalist on Karbora Paper Competition
(2022)
        Organization
         Staff of Education Divison in High
School Council
          Committee of MBI Big Fair as
Competition Event Administrator
        </div>
    </div>
   </section>
   <!-- CONTACT -->
   <section id="contact" class="pb-5" style="background-color: rgb(208, 237,</pre>
207)">
    <div class="row pt-5 pb-4">
      Contact Me!
    </div>
    <div class="row justify-content-between">
      <div class="col-5">
       <form class="fw-regular ms-5 mb-3">
         <div class="mb-3">
```

```
<label for="exampleInputEmail1" class="form-label">Email
address</label>
              <input type="email" class="form-control" id="exampleInputEmail1"</pre>
aria-describedby="emailHelp" />
            </div>
            <div class="mb-3">
              <label for="exampleInputPassword1" class="form-</pre>
label">Password</label>
              <input type="password" class="form-control"</pre>
id="exampleInputPassword1" />
            </div>
            <div class="mb-3">
              <label for="exampleFormControlTextarea1" class="form-label">Give
some criticism and suggestion</label>
              <textarea class="form-control" id="exampleFormControlTextarea1"</pre>
rows="3"></textarea>
            </div>
            <button type="submit" class="btn btn-primary">Submit
        </div>
        <div class="col-5 text-dark">
          Follow Me
          <a class="fs-5 text-dark" href="https://wa.me/6282245168715"><i</pre>
class="bx bxl-whatsapp fs-3"></i> +6282245168715</a>
          <a class="fs-5 text-dark" href="https://www.instagram.com/mrzld0/"><i</pre>
class="bx bxl-instagram fs-3"></i> mrzld0</a>
        </div>
      </div>
    </section>
    <footer class="bg-success text-white text-center fw-bolder pt-2">
      © This assignment was made by my whole <svg
xmlns="http://www.w3.org/2000/svg" width="16" height="16" fill="currentColor"
class="bi bi-heart-fill" viewBox="0 0 16 16">
        <path fill-rule="evenodd" d="M8 1.314C12.438-3.248 23.534 4.735 8 15-</pre>
7.534 4.736 3.562-3.248 8 1.314z"/>
     </svg>
 </body>
</html>
```



Program tersebut merupakan web portofolio sederhana yang dibuat dengan HTML dan CSS dari bootstrap. Kami mengimplementasikan perintah perintah yang terdapat dalam percobaan percobaan sebelumnya dan menambahkan sedikit perintah baru untuk memperindah web kami.

Untuk semua source code bisa diakses disini

E. REFERENSI

- Referensi HTML
- Referensi CSS
- Lakukan proyek di <u>Codecademy website</u>