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Kelas: TI22PB

1. Latihan *Typography*

Buatlah dokumen HTML bernama Latihan-1. Buatlah sebuah artikel yang berisi *Heading, Paragraph dan Formatting*. Minimum penggunaan paragraf sebanyak 4 buah.

```
Latihan-1.html > html > body > p > b
1   <!DOCTYPE html>
2   <html lang="en">
3     <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Stray Kids: A Dynamic Force in the K-Pop Scene</title>
7     </head>
8     <body>
9       <h1>Stray Kids: A Dynamic Force in the K-Pop Scene</h1>
10      <p><strong>Stray Kids</strong>, the vibrant South Korean boy group under JYP Entertainment, has undeniably left
11        an indelible mark on the global music landscape since their sensational debut in 2018. Comprised of eight
12        immensely talented members -<b> Bang Chan, Lee Know, Changbin, Hyunjin, Han, Felix, Seungmin, and I.N </b> -
13        Stray Kids has swiftly risen to prominence, captivating the hearts of millions of fans worldwide,
14        affectionately known as STAYS, who ardently support and cherish their every endeavor.</p>
15      <p>The group's meteoric rise can be attributed not only to their infectious melodies and electrifying
16        performances but also to their unwavering authenticity and relatability. Stray Kids stands out for their
17        distinctive musical style, which seamlessly blends elements of hip-hop, EDM, and rock, resulting in a sound
18        that is both innovative and deeply resonant. Their lyrics, penned largely by the members themselves, delve into
19        a myriad of topics ranging from personal struggles and growth to societal issues, serving as a poignant
20        reflection of the experiences and emotions of contemporary youth.</p>
21      <p>Beyond their musical prowess, Stray Kids' dynamic stage presence and powerful choreography have further
22        solidified their status as one of <b>K-pop's most captivating acts</b>. Each performance is imbued with an
23        infectious energy and passion that leaves audiences spellbound, while their charismatic personalities shine
24        through, endearing them to fans worldwide.</p>
25      <p>Stray Kids' discography boasts a diverse range of tracks, each offering a unique glimpse into the group's
26        multifaceted artistry. From the anthemic "God's Menu" to the introspective "Blueprint," each song showcases the
27        group's versatility and depth, earning them critical acclaim and commercial success.</p>
28      <p>As Stray Kids continues to push boundaries and redefine the K-pop landscape, their journey serves as a
29        testament to the power of passion, perseverance, and authenticity. With each new release, they reaffirm their
30        position as not just a boy group, but a cultural phenomenon, poised to leave an indelible legacy on the global
31        music scene for years to come.</p>
32
33      music scene for years to come.</p>
34      <p>Whether they're lighting up the stage with their electrifying performances or using their voices to speak
35        out on issues close to their hearts, Stray Kids remains an unstoppable force, captivating hearts and minds
36        around the world with their boundless talent and unwavering commitment to making a difference.</p>
37
38    </body>
39  </html>
```



Stray Kids: A Dynamic Force in the K-Pop Scene

Stray Kids, the vibrant South Korean boy group under JYP Entertainment, has undeniably left an indelible mark on the global music landscape since their sensational debut in 2018. Comprised of eight immensely talented members - **Bang Chan, Lee Know, Changbin, Hyunjin, Han, Felix, Seungmin, and I.N** - Stray Kids has swiftly risen to prominence, captivating the hearts of millions of fans worldwide, affectionately known as STAYS, who ardently support and cherish their every endeavor.

The group's meteoric rise can be attributed not only to their infectious melodies and electrifying performances but also to their unwavering authenticity and relatability. Stray Kids stands out for their distinctive musical style, which seamlessly blends elements of hip-hop, EDM, and rock, resulting in a sound that is both innovative and deeply resonant. Their lyrics, penned largely by the members themselves, delve into a myriad of topics ranging from personal struggles and growth to societal issues, serving as a poignant reflection of the experiences and emotions of contemporary youth.

Beyond their musical prowess, Stray Kids' dynamic stage presence and powerful choreography have further solidified their status as one of **K-pop's most captivating acts**. Each performance is imbued with an infectious energy and passion that leaves audiences spellbound, while their charismatic personalities shine through, endearing them to fans worldwide.

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2. Latihan Image

Buatlah dokumen HTML bernama Latihan-2. Dari dokumen HTML Latihan-1, tambahkanlah elemen Image. Penggunaan image minimum 2 buah. Dan tambahkan atribut gambar untuk mengatur panjang dan lebar dari gambar tersebut.

```
Latihan-2.html > html > body > img
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Stray Kids: A Dynamic Force in the K-Pop Scene</title>
7  </head>
8  <body>
9      <h1>Stray Kids: A Dynamic Force in the K-Pop Scene</h1>
10     
11     <p><strong>Stray Kids</strong>, the vibrant South Korean boy group under JYP Entertainment, has undeniably left an indelible mark on the global music landscape since their sensational debut in 2018. Comprised of eight immensely talented members -<b> Bang Chan, Lee Know, Changbin, Hyunjin, Han, Felix, Seungmin, and I.N </b> - Stray Kids has swiftly risen to prominence, captivating the hearts of millions of fans worldwide, affectionately known as STAYS, who ardently support and cherish their every endeavor.</p>
12     <p>The group's meteoric rise can be attributed not only to their infectious melodies and electrifying performances but also to their unwavering authenticity and relatability. Stray Kids stands out for their distinctive musical style, which seamlessly blends elements of hip-hop, EDM, and rock, resulting in a sound that is both innovative and deeply resonant. Their lyrics, penned largely by the members themselves, delve into a myriad of topics ranging from personal struggles and growth to societal issues, serving as a poignant reflection of the experiences and emotions of contemporary youth.</p>
13     
14     <p>Beyond their musical prowess, Stray Kids' dynamic stage presence and powerful choreography have further solidified their status as one of <b>K-pop's most captivating acts</b>. Each performance is imbued with an infectious energy and passion that leaves audiences spellbound, while their charismatic personalities shine through, endearing them to fans worldwide.</p>
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```



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3. Latihan *Table*

```

5 Latihan-3.html > ⏷ html > ⏷ body > ⏷ table > ⏷ tr
 1  <!DOCTYPE html>
 2  <html lang="en">
 3  <head>
 4      <meta charset="UTF-8">
 5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6      <title>Tabel Sifat Fisika Oksigen</title>
 7      <style>
 8          table {
 9              font-family: Arial, sans-serif;
10              width: 50%;
11              border: 1px solid black;
12          }
13          th, td {
14              padding: 10px;
15              text-align: left;
16              border: 1px solid black;
17              border-bottom: 1px solid black;
18          }
19          th {
20              background-color: grey;
21          }
22      </style>
23  </head>
24  <body>
25      <p>Oksigen memiliki beberapa SIFAT FISIKA, diantaranya yang terdapat dalam tabel berikut: </p>
26      <table>
27          <tr>
28              <th>Sifat Fisika</th>
29              <th>Oksigen</th>
30          </tr>
31          <tr>
```

```

32 |     <td>Massa atom relative</td>
33 |     <td>15994</td>
34 |   </tr>
35 |   <tr>
36 |     <td>Nomor Atom</td>
37 |     <td>8</td>
38 |   </tr>
39 |   <tr>
40 |     <td>Konfigurasi <i>electron</i></td>
41 |     <td>2s<sup>2</sup>2p<sup>4</sup></td>
42 |   </tr>
43 |   <tr>
44 |     <td>Jari-jari atom (nm)</td>
45 |     <td>0,074</td>
46 |   </tr>
47 |   <tr>
48 |     <td>Jari-jari X<sup>2-</sup>(nm)</td>
49 |     <td>0.140</td>
50 |   </tr>
51 |   <tr>
52 |     <td>Keelectronnegatifan</td>
53 |     <td>3,5</td>
54 |   </tr>
55 |   <tr>
56 |     <td>Energy ionisasi I (kJ/mol)</td>
57 |     <td>1316</td>
58 |   </tr>

59 |   <tr>
60 |     <td>Energy ionisasi II (kJ/mol)</td>
61 |     <td>3396</td>
62 |   </tr>
63 |   <tr>
64 |     <td>Kerapatan (g/cm<sup>3</sup>)</td>
65 |     <td>1.27 (padatan)</td>
66 |   </tr>
67 |   <tr>
68 |     <td>Titik leleh (<sup>0</sup>C)</td>
69 |     <td>+183</td>
70 |   </tr>
71 |   <tr>
72 |     <td>Titik beku (<sup>0</sup>C)</td>
73 |     <td>-219</td>
74 |   </tr>
75 |   <tr>
76 |     <td><i>Potensial elektroda</i> (V)</td>
77 |     <td>+0.401</td>
78 |   </tr>
79 |   <tr>
80 |     <td><math>X<sub>2(g)</sub> + 2e<sup>-</sup> <sub>(aq)</sub> → 2X<sup>-</sup> <sub>(aq)</sub></td>
81 |     <td>-</td>
82 |   </tr>
83 | </table>
84 | </body>
85 | </html>

```

Oksigen mempunyai beberapa SIFAT FISIKA, diantaranya yang terdapat dalam tabel berikut:

| Sifat Fisika | Oksigen |
|---|----------------|
| Massa atom relative | 15994 |
| Nomor Atom | 8 |
| Konfigurasi electron | $2s^2 2p^4$ |
| Jari-jari atom (nm) | 0,074 |
| Jari-jari X^2- (nm) | 0.140 |
| Kelektronegatifan | 3.5 |
| Energy ionisasi I (kJ/mol) | 1316 |
| Energy ionisasi II (kJ/mol) | 3396 |
| Kerapatan (g/cm ³) | 1.27 (padatan) |
| Titik leleh (°C) | +183 |
| Titik beku (°C) | -219 |
| Potensial elektroda (V) | +0.401 |
| $X_{(an)} + 2e^- \rightarrow X^{2-}_{(an)}$ | - |

4. Latihan List

```

1  Latihan-4.html > html > body > ul > li > u
2  1<!DOCTYPE html>
3  <html lang="en">
4  <head>
5  <meta charset="UTF-8">
6  <meta name="viewport" content="width=, initial-scale=1.0">
7  <title>The 10 Most Popular Programming Languages to Learn in 2022</title>
8  </head>
9  <body>
10 <h1>The 10 Most Popular Programming Languages to Learn in 2022</h1>
11 <p>There's no question that software programming is a hot career right now. The U.S. Bureau of Labor Statistics projects 21 percent growth for programming jobs from 2018 to 2028, which is more than four times the average for all occupations. What's more, the median annual pay for a software programmer is about $106,000, which is nearly three times the median pay for all U.S. workers. </p>
12 <p>Not all programming jobs are the same, however. Different roles, companies, and types of software require knowing and understanding different programming languages—and it's often beneficial to know multiple languages. Trying to break into the field of software programming can be a daunting experience, especially for professionals with no prior programming experience. </p>
13 <p>The Master of Science in Computer Science Align program at Northeastern University is specifically designed for students who want to transition into computer science from another field of study. </p>
14 <div style="text-align: center;">
15 <p><i>“Our aim is to transport students from a variety of different backgrounds and have them come out as software engineers,”</i> says Ian Gorton, PhD and director of the graduate computer science programs at Northeastern University—Seattle. <i>“We focus on math, programming, and a variety of computer science and engineering concepts.”</i> </p>
16 </div>
17 <div style="text-align: left;">
18 <p>Whether you're new to programming or looking to brush up on your skills, it helps to know which languages are in high demand. Here are 10 of the most popular programming languages of 2020 based on the number of job postings listed on job search sites. Indeed, the average annual salary for those jobs, and factors such as ease of use and potential for growth.</p>

```

```

19   <h2>Top 10 Most Popular Programming Languages</h2>
20   <ol>
21     <li>Python <br> <span style="color: #red;">Avarage annual salary:</span> <b>$120000</b></li>
22     <li>JavaScript <br> <span style="color: #red;">Avarage annual salary:</span> <b>$118000</b></li>
23     <li>Java <br> <span style="color: #red;">Avarage annual salary:</span> <b>$104000</b></li>
24     <li>C# <br> <span style="color: #red;">Avarage annual salary:</span> <b>$97000</b></li>
25     <li>C <br> <span style="color: #red;">Avarage annual salary:</span> <b>$97000</b></li>
26     <li>C++ <br> <span style="color: #red;">Avarage annual salary:</span> <b>$97000</b></li>
27     <li>Go <br> <span style="color: #red;">Avarage annual salary:</span> <b>$93000</b></li>
28     <li>R <br> <span style="color: #red;">Avarage annual salary:</span> <b>$93000</b></li>
29     <li>Swift <br> <span style="color: #red;">Avarage annual salary:</span> <b>$93000</b></li>
30     <li>PHP <br> <span style="color: #red;">Avarage annual salary:</span> <b>$81000</b></li>
31   </ol>
32   <h2>7 Other Programming Languages to Consider</h2>
33   <ul>
34     <li><strong>Web-based</strong> startups are more likely to be programming in <strong>Python</strong> and <strong>JavaScript.</strong></li>
35     <li>Larger companies tend to develop their internal software applications using <strong>C#</strong> or Java and their <strong>Web applications using PHP</strong>.</li>
36     <li>Programs for data <i>analytics typically</i> use the <strong>R</strong> and <strong>MATLAB</strong> programming languages.</li>
37     <li><u>Embedded devices</u>, such as those in the automotive and healthcare industries, run software written in <strong>C, C++, or Rust.</strong> </li>
38     <li>Applications that run on the cloud are increasingly written in <strong>Go or Scala</strong>.</li>
39     <li><strong>Mobile applications</strong> are increasingly written in Swift or Kotlin.</li>
40   </ul>
41 </body>
42 </html>

```

The 10 Most Popular Programming Languages to Learn in 2022

There's no question that software programming is a hot career right now. The U.S. Bureau of Labor Statistics projects 21 percent growth for programming jobs from 2018 to 2028, which is more than four times the average for all occupations. What's more, the median annual pay for a software programmer is about \$106,000, which is nearly three times the median pay for all U.S. workers.

Not all programming jobs are the same, however. Different roles, companies, and types of software require knowing and understanding different programming languages—and it's often beneficial to know multiple languages. Trying to break into the field of software programming can be a daunting experience, especially for professionals with no prior programming experience.

The [Master of Science in Computer Science Align program](#) at Northeastern University is specifically designed for students who want to transition into computer science from another field of study.

"Our aim is to transport students from a variety of different backgrounds and have them come out as software engineers," says Ian Gorton, PhD and director of the graduate computer science programs at Northeastern University—Seattle. *"We focus on math, programming, and a variety of computer science and engineering concepts."*

Whether you're new to programming or looking to brush up on your skills, it helps to know which languages are in high demand. Here are 10 of the most popular programming languages of 2020 based on the number of job postings listed on job search sites. Indeed, the average annual salary for those jobs, and factors such as ease of use and potential for growth.

Top 10 Most Popular Programming Languages

1. Python
Avarage annual salary: \$120000
2. JavaScript
Avarage annual salary: \$118000
3. Java
Avarage annual salary: \$104000
4. C#
Avarage annual salary: \$97000
5. C
Avarage annual salary: \$97000
6. C++
Avarage annual salary: \$97000
7. Go
Avarage annual salary: \$93000
8. R
Avarage annual salary: \$93000
9. Swift
Avarage annual salary: \$93000
10. PHP
Avarage annual salary: \$81000

7 Other Programming Languages to Consider

- Web-based startups are more likely to be programming in **Python** and **JavaScript**.
- Larger companies tend to develop their internal software applications using **C#** or **Java** and their **Web applications using PHP**.
- Programs for data *analytics typically* use the **R** and **MATLAB** programming languages.
- **Embedded devices**, such as those in the automotive and healthcare industries, run software written in **C, C++, or Rust**.
- Applications that run on the cloud are increasingly written in **Go or Scala**.
- **Mobile applications** are increasingly written in **Swift** or **Kotlin**.

5. Latihan Iframe, Block dan Inline

- Buatlah dokumen HTML bernama Latihan-5. Ubahlah bentuk dibawah ini menjadi script HTML:
- Buatlah 1 buah iframe yang memanggil file dokumen Latihan-4
- Buatlah 1 buah iframe yang memanggil sebuah url

```
5 Latihan-5.html > html > head > title
1   <!DOCTYPE html>
2   <html lang="en">
3     <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Programming Language Base on Career</title>
7       <style>
8         .column {
9           float: left;
10          width: 33.33%;
11          padding: 20px;
12          box-sizing: border-box;
13        }
14        .row::after {
15          content: "";
16          clear: both;
17          display: table;
18        }
19      </style>

22   </head>
23   <body>
24     <h1>Programming Language Base on Career</h1>
25     <div class="row">
26
27       <div class="column">
28         <h2>Front-end Web Development</h2>
29         <p><b>JavaScript</b></p>
30         
31         <p><b>Elm</b></p>
32         
33         <p><b>TypeScript</b></p>
34         
35       </div>
36
37       <div class="column">
38         <h2>Back-end Web Development</h2>
39         <p><b>JavaScript</b></p>
40         
41         <p><b>Scala</b></p>
42         
43         <p><b>Go</b></p>
44         
45         <p><b>Ruby</b></p>
46         
47         <p><b>Python</b></p>
48         
49     </div>
```

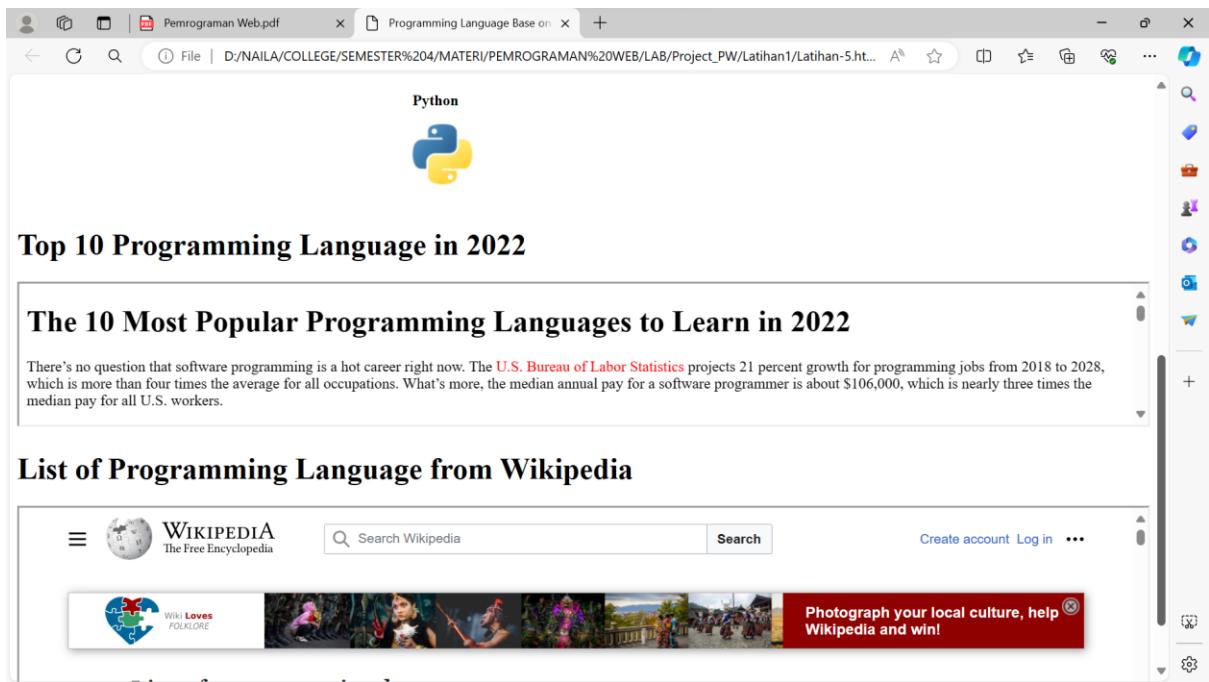
```

51   <div class="column">
52     <h2>Mobile Development</h2>
53     <p><b>JavaScript</b></p>
54     
55     <p><b>Java</b></p>
56     
57     <p><b>Objective C</b></p>
58     
59     <p><b>Swift</b></p>
60     
61   </div>
62 </div>
63
64
65
66 <h1>Top 10 Programming Language in 2022</h1>
67 <iframe src="Latihan-4.html" width="1200px" height="150px"></iframe>
68
69 <h1>List of Programming Language from Wikipedia</h1>
70 <iframe src="https://en.wikipedia.org/wiki/List_of_programming_languages" width="1200px" height="250px"></iframe>
71
72 </body>
73 </html>

```

Programming Language Base on Career

| Front-end Web Development | Back-end Web Development | Mobile Development |
|--|--|---|
| JavaScript  | JavaScript  | JavaScript  |
| Elm  | Scala  | Java  |
| TypeScript  | Go  | Objective C  |
| | Ruby  | Swift  |



The screenshot shows a web browser window with two tabs open. The active tab displays a PDF document titled "Pemrograman Web.pdf" which features the Python logo and the heading "Top 10 Programming Language in 2022". Below this, there is some text about programming being a hot career. The second tab shows a webpage titled "Programming Language Base on" with a header "The 10 Most Popular Programming Languages to Learn in 2022". A search bar is present on the page. The right side of the browser interface includes a vertical toolbar with various icons for file management and other functions.

6. Latihan *link*

- a. Implementasikan bentuk dibawah ini kedalam script HTML. Buatlah hyperlink pada elemen Daftar Isi, dimana link tersebut merujuk ke diverent area, ketika mengklik salah satu link tersebut maka akan merujuk ke area yang telah dituju. Contoh: jika mengklik link Java, maka akan dirujuk ke area Java.
- b. Buatlah tiga buah link baru dimana:
 - 1) Link “Go to Latihan-4” menuju ke dokumen HTML Latihan-4 dengan menggunakan target _self
 - 2) Link “Go to Latihan-5” menuju ke dokumen HTML Latihan-5 dengan menggunakan target _blank
 - 3) Link “Go to URL” menuju URL dengan menggunakan target _parent

```
Latihan-6.html > html > body > div.kotak
2   <html lang="en">
3   </head>
4   <body>
5     <h1>Top 10 Daftar Bahasa Pemrograman</h1>
6     <p>
7       <b>Daftar isi:</b>
8     </p>
9     <ul>
10    <li><a href="#Python">Python</a></li>
11    <li><a href="#JavaScript">JavaScript</a></li>
12    <li><a href="#Java">Java</a></li>
13    <li><a href="#Csharp">C#</a></li>
14    <li><a href="#C">C</a></li>
15    <li><a href="#Cplus">C++</a></li>
16    <li><a href="#Go">Go</a></li>
17    <li><a href="#R">R</a></li>
18    <li><a href="#Swift">Swift</a></li>
19    <li><a href="#PHP">PHP</a></li>
20  </ul>
21  <br>
22  <div class="kotak">
23    <h2 id="Python">Python</h2>
24    <p>Python adalah bahasa pemrograman tingkat tinggi yang sering digunakan untuk pengembangan perangkat lunak, pengembangan web, analisis data, kecerdasan buatan, dan berbagai aplikasi lainnya. Python didesain dengan sintaksis yang mudah dipahami dan mudah dibaca, yang memungkinkan pengembang untuk menulis kode dengan cepat dan efisien. Salah satu keunggulan Python adalah kesederhanaan sintaksisnya, yang membuatnya menjadi pilihan populer bagi pemula dalam pemrograman. Python juga mendukung berbagai paradigma pemrograman, termasuk pemrograman berorientasi objek, pemrograman fungsional, dan pemrograman prosedural.</p>
25  </div>
26  <br>
27  <div class="kotak">
28    <h2 id="JavaScript">JavaScript</h2>
29    <p>JavaScript adalah bahasa pemrograman tingkat tinggi yang secara luas digunakan untuk pengembangan aplikasi web. Berbeda dengan Python yang sering digunakan untuk pengembangan server-side, JavaScript adalah bahasa pemrograman yang utama digunakan untuk membuat interaksi dan fitur dinamis di dalam aplikasi web, seperti validasi formulir, animasi, manipulasi DOM (Document Object Model), dan banyak lagi. JavaScript adalah bahasa yang dijalankan di sisi klien (client-side), artinya kode JavaScript dieksekusi oleh browser web di komputer pengguna. Ini memungkinkan untuk membuat aplikasi web yang responsif dan interaktif tanpa perlu kembali ke server secara berulang. JavaScript juga dapat digunakan di sisi server (dengan platform seperti Node.js), memungkinkan pengembang untuk membuat aplikasi web berbasis JavaScript dari ujung ke ujung.</p>
30  </div>
31  <br>
32  <div class="kotak">
33    <h2 id="Java">Java</h2>
34    <p>Java adalah bahasa pemrograman yang dikembangkan oleh Sun Microsystems (sekarang dimiliki oleh Oracle Corporation). Salah satu fitur paling menonjol dari Java adalah portabilitasnya yang tinggi. Artinya, kode yang ditulis dalam Java dapat dijalankan di berbagai platform yang memiliki Java Virtual Machine (JVM), seperti Windows, macOS, dan Linux, tanpa perlu melakukan perubahan tambahan. Java banyak digunakan dalam pengembangan aplikasi server-side, desktop, dan terutama aplikasi Android. Java menawarkan konsep-konsep seperti pemrograman berorientasi objek, pengelolaan memori otomatis melalui pengumpul sampah (garbage collector), dan memiliki berbagai pustaka standar yang kaya untuk berbagai keperluan pengembangan perangkat lunak.</p>
35  </div>
36  <br>
37  <div class="kotak">
38    <h2 id="C">C</h2>
39    <p>C adalah bahasa pemrograman yang dikembangkan oleh Dennis Ritchie pada tahun 1972. C merupakan salah satu bahasa pemrograman yang paling tua dan masih banyak digunakan hingga saat ini. C dikenal dengan sintaksis yang kuat dan fleksibel, serta kemampuan untuk memanipulasi memori secara langsung. C banyak digunakan dalam pengembangan sistem operasi, aplikasi server-side, dan aplikasi desktop. C juga merupakan dasar bagi banyak bahasa pemrograman modern lainnya, seperti C++, C#, dan Go. Meskipun C tidak mendukung fitur-fitur modern seperti objek dan klasifikasi, ia tetap menjadi pilihan populer bagi pengembang yang membutuhkan kontrol langsung atas sistem dan memori.</p>
40  </div>
41  <br>
42  <div class="kotak">
43    <h2 id="Cplus">C++</h2>
44    <p>C++ adalah bahasa pemrograman yang dikembangkan oleh Bjarne Stroustrup pada tahun 1983. C++ adalah versi yang diperluas dan berorientasi objek dari bahasa C. C++ menambahkan fitur-fitur baru seperti klasifikasi, inheritance, dan polymorphism. C++ banyak digunakan dalam pengembangan aplikasi server-side, desktop, dan game. C++ juga merupakan dasar bagi bahasa pemrograman modern lainnya, seperti C# dan Java. Meskipun C++ memiliki sintaksis yang rumit, ia tetap menjadi pilihan populer bagi pengembang yang membutuhkan kontrol langsung atas sistem dan memori.</p>
45  </div>
```

```

44   <div class="kotak">
45     <h2 id="Csharp">C#</h2>
46     <p>C# (C sharp) adalah bahasa pemrograman yang dikembangkan oleh Microsoft sebagai bagian dari inisiatif .NET Framework. C# sering digunakan untuk pengembangan aplikasi Windows, aplikasi web menggunakan platform ASP.NET, dan perangkat lunak berbasis cloud dengan menggunakan teknologi .NET Core. Bahasa ini memiliki sintaksis yang mirip dengan bahasa pemrograman C++ dan Java, tetapi dengan tambahan fitur-fitur modern seperti LINQ (Language Integrated Query), delegasi, dan pengumpul sampah terkelola. C# sangat terintegrasi dengan lingkungan pengembangan Microsoft dan memungkinkan pengembang untuk membuat berbagai jenis aplikasi dengan berbagai tingkat kompleksitas.</p>
47   </div>
48   <br>
49   <div class="kotak">
50     <h2 id="C">C</h2>
51     <p>C adalah salah satu bahasa pemrograman tertua yang masih digunakan secara luas hingga saat ini. Bahasa ini diciptakan pada tahun 1972 oleh Dennis Ritchie di Bell Labs. C sangat populer dalam pengembangan sistem operasi (seperti UNIX dan Linux), perangkat lunak tingkat rendah (seperti driver perangkat keras), dan aplikasi tertanam (embedded systems). C memiliki sintaksis yang relatif sederhana dan efisien, dan memberikan pengembang kontrol langsung terhadap sumber daya komputer. Walaupun cukup kuat, pengembangan menggunakan bahasa C memerlukan pemahaman yang mendalam tentang konsep pemrograman dan manajemen memori.</p>
52   </div>
53   <br>
54   <div class="kotak">
55     <h2 id="Cplus">C++</h2>
56     <p>C++ adalah perkembangan dari bahasa pemrograman C dengan penambahan fitur-fitur pemrograman berorientasi objek. Bahasa ini dikembangkan oleh Bjarne Stroustrup pada tahun 1983. C++ sering digunakan dalam pengembangan perangkat lunak yang memerlukan kinerja tinggi dan kontrol langsung terhadap sumber daya, seperti permainan komputer, aplikasi desktop, dan sistem perangkat lunak terdistribusi. Bahasa ini memiliki sintaksis yang kompleks dan kuat, dan dapat digunakan untuk membuat berbagai jenis aplikasi dari yang sederhana hingga yang sangat kompleks.</p>
57
58
59   <div class="kotak">
60     <h2 id="Go">Go</h2>
61     <p>Go, atau dikenal sebagai Golang, adalah bahasa pemrograman yang dikembangkan oleh Google pada tahun 2007. Tujuan utama pengembangan Go adalah untuk menciptakan bahasa pemrograman yang sederhana, efisien, dan mudah digunakan untuk pengembangan perangkat lunak berskala besar. Go memperhatikan kinerja, konsistensi, dan produktivitas pengembang. Bahasa ini memiliki sintaksis yang bersih dan sederhana, dengan dukungan untuk konkurensi dan pemrograman paralel bawaan, yang memungkinkan pengembang untuk dengan mudah menangani tugas-tugas berskala besar secara efisien. Go sering digunakan dalam pengembangan perangkat lunak server-side, infrastruktur back-end, dan sistem distribusi.</p>
62   </div>
63   <br>
64   <div class="kotak">
65     <h2 id="R">R</h2>
66     <p>R adalah bahasa pemrograman dan lingkungan perangkat lunak yang populer dalam analisis statistik dan komputasi numerik. Dikembangkan oleh Ross Ihaka dan Robert Gentleman pada tahun 1993, R menyediakan berbagai fitur dan pustaka khusus untuk analisis data, visualisasi, dan pemodelan statistik. R sangat digunakan oleh para peneliti, ilmuwan data, dan analis bisnis untuk menjelajahi dan menganalisis data, serta membangun model statistik dan visualisasi yang kuat. Bahasa ini bersifat open-source dan memiliki komunitas pengguna yang besar yang berkontribusi pada pengembangan dan peningkatan pustaka dan fungsionalitasnya.</p>
67   </div>
68   <br>
69
70   <div class="kotak">
71     <h2 id="Swift">Swift</h2>
72     <p>Swift adalah bahasa pemrograman yang dikembangkan oleh Apple pada tahun 2014 untuk pengembangan aplikasi iOS, macOS, watchOS, dan tvOS. Swift didesain sebagai pengganti untuk bahasa pemrograman Objective-C, dengan fokus pada keamanan, kejelasan sintaksis, dan kinerja. Bahasa ini memiliki fitur-fitur modern seperti inferensi tipe, penanganan memori otomatis, dan keamanan yang ditingkatkan. Swift menjadi pilihan populer bagi pengembang aplikasi Apple karena integrasinya yang kuat dengan platform Apple dan ekosistemnya, serta kinerjanya yang baik.</p>
73   </div>
74   <br>
75   <div class="kotak">
76     <h2 id="PHP">PHP</h2>
77     <p>PHP adalah bahasa pemrograman yang sering digunakan untuk pengembangan aplikasi web dinamis dan berbasis server. Dikembangkan pada awal tahun 1990-an oleh Rasmus Lerdorf, PHP menyediakan berbagai fitur dan fungsi untuk memungkinkan pengembang membangun situs web yang interaktif dan dinamis. PHP berfungsi di sisi server, artinya kode PHP dieksekusi di server web untuk menghasilkan HTML dan konten web lainnya yang kemudian dikirimkan ke browser pengguna. PHP memiliki sintaksis yang mirip dengan bahasa pemrograman C dan telah menjadi salah satu bahasa pemrograman yang paling populer untuk pengembangan web. Meskipun popularitasnya telah menurun sedikit dengan kedatangan kerangka kerja dan bahasa pemrograman lainnya, PHP tetap menjadi salah satu bahasa pemrograman yang penting untuk pengembangan web.</p>
78   </div>
79   <br>
80
81   <a href="Latihan-4.html" target="_self">Go to The 10 Most Popular Programming Languages to Learn in 2022</a>
82   <br>
83   <a href="Latihan-5.html" target="_blank">Go to Programming Language Base on Career</a><br>
84   <a href="https://www.petanikode.com/html-dasar/" target="_parent">Go to PetaniKode.com</a>
85

```

The screenshot shows a code editor window for a CSS file named 'style.css' containing a single rule for a class '.kotak'. The rule defines a border of 1px solid black and padding of 5px. Below this, a web browser window is open to a page titled 'Top 10 Daftar Bahasa Pemrograman'. The page lists ten programming languages in a bulleted menu: Python, JavaScript, Java, C#, C, C++, Go, R, Swift, and PHP. Under each language, there is a brief description. For example, Python is described as a high-level language used for software development, data analysis, and scientific computing. JavaScript is described as a language used for web development, server-side scripting, and client-side scripting. At the bottom of the page, there are three links: 'Go to The 10 Most Popular Programming Languages to Learn in 2022', 'Go to Programming Language Base on Career', and 'Go to PetaniKode.com'.

```
style.css > .kotak
1 .kotak {
2     border: 1px solid black;
3     padding: 5px;
4 }
5
```

Top 10 Daftar Bahasa Pemrograman

Daftar isi:

- [Python](#)
- [JavaScript](#)
- [Java](#)
- [C#](#)
- [C](#)
- [C++](#)
- [Go](#)
- [R](#)
- [Swift](#)
- [PHP](#)

Python

Python adalah bahasa pemrograman tingkat tinggi yang sering digunakan untuk pengembangan perangkat lunak, pengembangan web, analisis data, kecerdasan buatan, dan berbagai aplikasi lainnya. Python didesain dengan sintaksis yang mudah dipahami dan mudah dibaca, yang memungkinkan pengembang untuk menulis kode dengan cepat dan efisien. Salah satu keunggulan Python adalah kesederhanaan sintaksisnya, yang membuatnya menjadi pilihan populer bagi pemula dalam pemrograman. Python juga mendukung berbagai paradigma pemrograman, termasuk pemrograman berorientasi objek, pemrograman fungsional, dan pemrograman prosedural.

JavaScript

JavaScript adalah bahasa pemrograman tingkat tinggi yang secara luas digunakan untuk pengembangan aplikasi web. Berbeda dengan Python yang sering digunakan untuk pengembangan server-side, JavaScript adalah bahasa pemrograman yang utama digunakan untuk membuat interaksi dan fitur dinamis di dalam aplikasi web.

[Go to The 10 Most Popular Programming Languages to Learn in 2022](#)
[Go to Programming Language Base on Career](#)
[Go to PetaniKode.com](#)

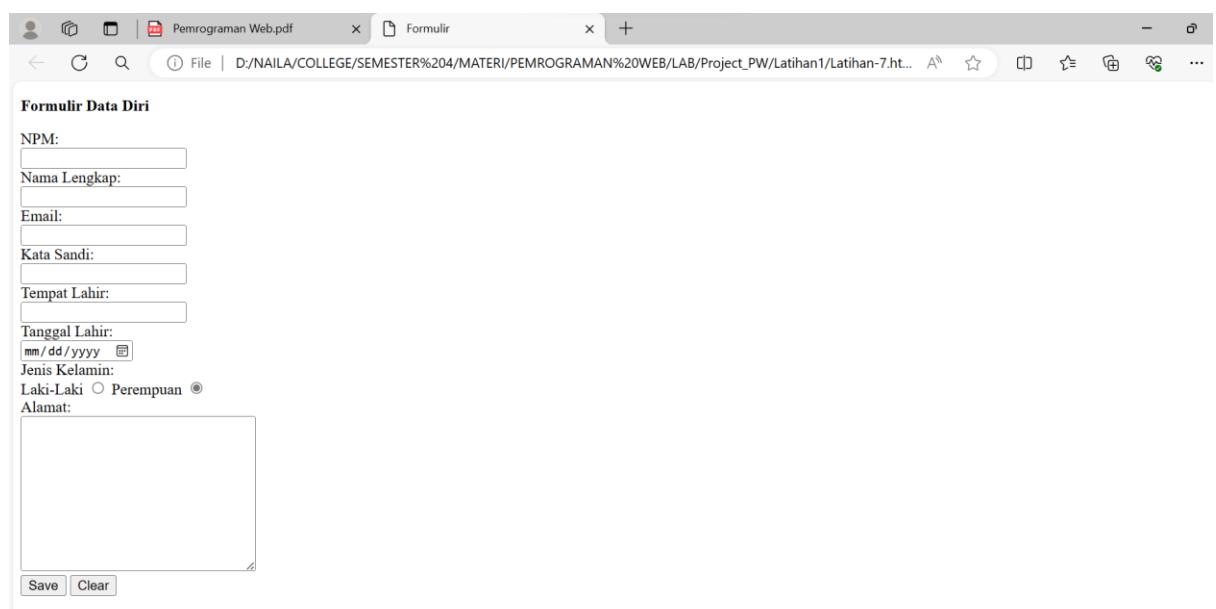
7. Latihan Form

Buatlah dokumen HTML bernama Latihan-7. Buatlah form yang berisi isian field sebagai berikut:

- NPM (input text)
- Fullname (input text)
- Email (input email)
- Password (input password)
- Place Birth (input text)
- Birthdate (input date)
- Gender (radio button, Male and Female)
- Address (textarea)

Dari form diatas memiliki dua buah button. Button submit dengan nama Save dan button reset dengan nama Clear.

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Formulir</title>
7  </head>
8  <body>
9      <p><b>Formulir Data Diri</b></p>
10
11 <form action="form_data_diri">
12     <label for="npm">NPM: </label><br>
13     <input type="text" name="npm" id="npm"/>
14     <br>
15     <label for="full_name">Nama Lengkap: </label><br>
16     <input type="text" name="full_name" id="full_name"/>
17     <br>
18     <label for="email">Email: </label><br>
19     <input type="email" name="email" id="email"/>
20     <br>
21     <label for="pass">Kata Sandi:</label><br>
22     <input type="password" name="pass" id="pass"/>
23     <br>
24     <label for="place_birth">Tempat Lahir:</label><br>
25     <input type="text" name="place_birth" id="place_birth"/>
26     <br>
27     <label for="birth_date">Tanggal Lahir:</label><br>
28     <input type="date" name="birth_date" id="birth_date"/>
29     <br>
30     <label for="gender">Jenis Kelamin:</label><br>
31     <label for="male">Laki-Laki</label>
32     <input type="radio" name="gender" id="male"/>
33
34     <label for="female">Perempuan</label>
35     <input type="radio" name="gender" id="female"/>
36     <br>
37     <label for="address">Alamat: </label><br>
38     <textarea name="address" id="" cols="30" rows="10"></textarea>
39 </form>
40     <button type="submit">Save</button>
41     <button type="reset">Clear</button>
42
43 </body>
44 </html>
```



8. Latihan Layout

Buatlah folder project dengan nama my-portfolio. Di Dalam folder tersebut terdapat dua buah folder yaitu folder css dan images. Dan terdapat satu buah file bernama index.html. Dimana file tersebut berisi script HTML yang akan menampilkan bentuk portofolio atau curriculum vitae pada browser. Silakan membuat bentuk portofolio dengan bentuk bebas namun mengimplementasikan bentuk elemen HTML yang telah diberikan minimal 5 buah elemen.

```
stylesport.css > nav
1  @import url("https://fonts.googleapis.com/css2?family=Poppins:wght@400;600;700&display=swap");
2
3  body {
4      font-family: Poppins;
5      margin: 0;
6      padding: 0;
7      background-color: #ffff3fb;
8  }
9
10 .container {
11     width: 80%;
12     margin: 0 auto;
13     padding: 20px;
14 }
15
16 nav {
17     background-color: white;
18     color: #674ea7;
19     padding: 20px 0;
20 }
21
22 nav h1 {
23     margin: 0;
24     float: left;
25 }
26
27 nav ul {
28     list-style-type: none;
29     margin: 0;
30     padding: 0;
31     float: right;
32 }
33
34 nav ul li {
35     display: inline;
36     margin-right: 20px;
37 }
38
39 nav ul li a {
40     color: #674ea7;
41     text-decoration: none;
42     font-weight: bold;
43 }
44
45 nav ul li a:hover {
46     color: #ffff3fb;
47 }
48
49 section {
50     padding: 50px 0;
51     margin-bottom: 250px;
52 }
53
54 .about-left {
55     float: left;
56     width: 60%;
57 }
58
59 .about-right {
60     float: right;
61     width: 30%;
62 }
```

```

64  h2 {
65    color: #674ea7;
66  }
67
68  p {
69    color: #525050;
70  }
71
72  .profile-img {
73    width: 100%;
74    border-radius: 50%;
75  }
76
77  #portfolio {
78    background-color: #ffff3fb;
79  }
80
81  h2 {
82    text-align: center;
83  }
84
85  .portfolio-items {
86    display: flex;
87    justify-content: space-between;
88    margin-top: 20px;
89  }
90
91  .portfolio-item {
92    flex-basis: 30%;
93    text-align: center;
94  }

```

```

96  .portfolio-item a {
97    text-decoration: none;
98    color: #333;
99  }
100
101 .portfolio-item img {
102   width: 100%;
103   border-radius: 10px;
104   margin-bottom: 10px;
105 }
106
107 footer {
108   background-color: #674ea7;
109   color: white;
110   text-align: center;
111   padding: 20px 0;
112 }
113

```

Latihan-4.html > html > body > section#portfolio > div.container > div.portfolio-items > div.portfolio-item > a > h3

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Portofolio</title>
7    <link rel="stylesheet" href="stylesport.css">
8  </head>
9  <body>
10  <nav>
11    <div class="container">
12      <h1 style="font-family: cursive;">hai.naila</h1>
13      <ul>
14        <li><a href="#about">About</a></li>
15        <li><a href="#portfolio">Project</a></li>
16        <li><a href="#contact">Contact</a></li>
17      </ul>
18    </div>
19  </nav>
20
21  <section id="about">
22    <div class="container">
23      <div class="about-left">
24        <h2>About Me</h2>
25        <p>Hey there! I'm Naila a student studying Information Technology at IBI Kesatuan. I absolutely love everything tech-related and enjoy diving into its endless possibilities. On top of that, I have a passion for writing and storytelling. I believe that blending my tech curiosity with my love for writing can lead to some pretty awesome stuff! I'm all about continuous learning and exploring new horizons in both tech and writing</p>
26      </div>
27      <div class="about-right">
28        
29      </div>

```

```

29 |     </div>
30 |   </div>
31 | </section>
32 |
33 <section id="portfolio">
34   <div class="container">
35     <h2>My Project</h2>
36     <div class="portfolio-items">
37       <div class="portfolio-item">
38         <a href="https://www.figma.com/file/tIXMKdv0hKfv9JupjeiEj3/TUGAS-DESGRAF?type=design&node-id=0%3A1&mode=design&t=tTQQQtsmv9LlmTEG-1">
39           
40           <h3>Project 1</h3>
41         </a>
42       </div>
43       <div class="portfolio-item">
44         <a href="https://www.figma.com/file/E7DXXjnHPRkR8Dd2MsQS6U/PROJECT-UAS?type=design&node-id=0%3A1&mode=design&t=tTQQQtsmv9LlmTEG-1">
45           
46           <h3>Project 2</h3>
47         </a>
48       </div>
49     <div class="portfolio-item">
50       <a href="https://www.figma.com/file/2IK1JgHdMMJogQvwSnZCvK/AI-READYF?type=design&node-id=0%3A1&mode=design&t=tTQQQtsmv9LlmTEG-1">
51         
52         <h3>Project 3</h3>
53       </a>
54     </div>
55   </div>
56 </div>
57 </section>
58
59 <footer id="contact">
60   <div class="container">
61     <p style="color: black; font-size: small;">Copyright Naila Martiza 2024 Portofolio.</p>
62   </div>
63 </footer>
64 </body>
65 </html>

```

hai.naila

About Project Contact

About Me

Hey there! I'm **Naila** a student studying Information Technology at IBI Kesatuan. I absolutely love everything tech-related and enjoy diving into its endless possibilities. On top of that, I have a passion for writing and storytelling. I believe that blending my tech curiosity with my love for writing can lead to some pretty awesome stuff! I'm all about continuous learning and exploring new horizons in both tech and writing

My Project

Project 1

Project 2

Bogor Navigator

Project 3

READYFY

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