**LAPORAN TUGAS PRAKTIKUM**

**DASAR PEMROGRAMAN WEB**

**TP MODUL 2**

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**PRODI TEKNIK INFORMATIKA**

**JURUSAN TEKNIK INFORMATIKA  
FAKULTAS TEKNIK**

**UNIVERSITAS TRUNOJOYO MADURA**

**2025**

1. **Code Program**

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| --- |
| <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Document</title>  </head>  <body>  <font face="arial">  <table border="1" width="100%" >  <caption><font face="Arial" size="3"><b>COMPARISON OF CLOUD-BASED SERVICES FOR RUNNING <br>JUPYTER NOTEBOOK</b></font></caption>  <thead>  <tr>  <th rowspan="3" colspan="2" bgcolor="green" align="center"><font color="white" size="5">COMPARISON</font></th>  <th colspan="6" bgcolor="green" align="center"><font color="white">CLOUD-BASED SERVICES</font></th>  </tr>    <tr>  <th bgcolor="green" align="center"><font color="white" size="3">BINDER</font></th>  <th bgcolor="green" align="center"><font color="white" size="3">KAGGLE KERNELS</font></th>  <th bgcolor="green" align="center"><font color="white" size="3">GOOGLE COLABORATORY</font></th>  <th bgcolor="green" align="center"><font color="white" size="3">MICROSOFT AZURE NOTEBOOKS</font></th>  <th bgcolor="green" align="center"><font color="white" size="3">COCALC</font></th>  <th bgcolor="green" align="center"><font color="white" size="3">DATALORE</font></th>  </tr>    <!-- Gambar dan link-->  <tr bgcolor="green">  <th><a href="https://mybinder.org/"><img src="./2\_images/Binder.jpg" alt="Binder"></a></th>  <th><a href="https://www.kaggle.com/kernels"><img src="./2\_images/Kaggle Kernels.jpg" alt="Kaggle"></a></th>  <th><a href="https://colab.research.google.com/notebooks/intro.ipynb"><img src="./2\_images/Google Colaboratory.jpg" alt="Google Colaboratory"></a></th>  <th><a href="https://notebooks.azure.com"><img src="./2\_images/Microsoft Azure.jpg" alt="Microsoft Azure"></a></th>  <th><a href="https://cocalc.com/"><img src="./2\_images/CoCalc.jpg" alt="CoCalc"></a></th>  <th><a href="https://datalore.io"><img src="./2\_images/Datalore.jpg" alt="Datalore"></a></th>  </tr>  </thead>    <tbody>  <tr>  <td bgcolor="green" colspan="2"><font color="white" size="2.5">Supported Languages</font></td>  <td align="center"><font size="2">Python 2 & 3, Julia, R, and others</font></td>  <td align="center" valign="top"><font size="2">Python 3 and R</font></td>  <td align="center"><font size="2">Python 2 & 3, <br>and Swift</font></td>  <td align="center"><font size="2">Python 2 & 3, R,<br> and F#</font></td>  <td align="center"><font size="2">Python 2 & 3, Julia, R, and others</font></td>  <td align="center" valign="top"><font size="2">Python 3</font></td>  </tr>    <tr>  <td rowspan="2" bgcolor="green"><font color="white" size="2.5">Similarity with Jupyter Notebook</font></td>  <td bgcolor="green" align="center"><font color="white" size="2.5">Interface</font></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td></td>  <td></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td></td>  </tr>    <tr>  <td bgcolor="green" align="center"><font color="white" size="2.5">Keyboard Shortcuts</font></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td></td>  </tr>    <tr>  <td colspan="2" bgcolor="green"><font color="white" size="2.5">Ease of Working with Datasets</font></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  </tr>    <tr>  <td bgcolor="green" colspan="2"><font color="white" size="2.5">Internet Access</font></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  </tr>    <tr>  <td rowspan="5" bgcolor="green"><font color="white" size="2.5">Ability to</font></td>  <td bgcolor="green"><font color="white" size="2.5">Install Packages</font></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  </tr>    <tr>  <td rowspan="1" bgcolor="green"><font color="white" size="2.5">Work Privately</font></td>  <td></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  </tr>    <tr>  <td bgcolor="green"><font color="white" size="2.5">Share Publicly</font></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"></td>  </tr>    <tr>  <td bgcolor="green"><font color="white" size="2.5">Collaborate</font></td>  <td align="center"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  </tr>    <tr>  <td bgcolor="green"><font color="white" size="2.5">Upgrade for Better Performance</font></td>  <td></td>  <td></td>  <td></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td> </td>  </tr>    <tr>  <td colspan="2" bgcolor="green"><font color="white" size="2.5">Documentation and Technical Support</font></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  <td align="center"><img src="./2\_images/Check.jpg" alt="Check" width="20px"></td>  </tr>  </tbody>  </table>    <font size="2X"><p>As summarized from: <a href="https://www.dataschool.io/cloud-services-for-jupyter-notebook/" target="\_blank">https://www.dataschool.io/cloud-services-for-jupyter-notebook/</a></p></font>    </font>  </body>  </html> |

**Penjelasan Code Program:**

**1.STRUKTUR DASAR HTML**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Document</title>

</head>

<body>

* <!DOCTYPE html> : Menentukan bahwa ini adalah dokumen HTML5.
* <html lang="en"> : Bahasa dokumen diatur ke **Inggris**.
* <meta charset="UTF-8"> : Menggunakan **UTF-8**, agar mendukung berbagai karakter.
* <meta name="viewport" content="width=device-width, initial-scale=1.0"> : Memastikan tampilan responsif di perangkat mobile.
* <title>Document</title> : Judul halaman.

**ISI BODY**

**2.ELEMEN FONT**

<font face="arial"> : Membungkus seluruh tabel yang nantinya semua isi font pada tabel akan memiliki font arial.

**3.TABEL**

<table border="1" width="100%">

* **border="1"** : Membuat batas antar sel tabel.
* **width="100%"** : Tabel melebar **sepanjang layer**

**Judul Tabel**

<caption><font face="Arial" size="3"><b>COMPARISON OF CLOUD-BASED SERVICES...</b></font></caption>

* <caption> : Menampilkan **judul tabel** di atasnya.
* <b> : Membuat teks **tebal**.

**4**.**BAGIAN <thead> (KEPALA TABEL)**

<thead>

<tr>

<th rowspan="3" colspan="2" bgcolor="green" align="center">

<font color="white" size="5">COMPARISON</font>

</th>

<th colspan="6" bgcolor="green" align="center">

<font color="white">CLOUD-BASED SERVICES</font>

</th>

</tr>

* <thead> : Menandakan bagian kepala tabel
* <th> : sel judul tabel bagian head/atas
* Rowspan=”3”: Judul **"COMPARISON"** akan mencakup **3 baris ke bawah**
* Colspan=”6” : Judul **"CLOUD-BASED SERVICES"** mencakup **6 kolom ke samping**.
* Bgcolor=”green” : Latar belakang hijau
* align= “center” : Teks rata tengah

**5.MENAMPILKAN GAMBAR DAN LINK**

<th><a href="https://mybinder.org/"><img src="./2\_images/Binder.jpg" alt="Binder"></a></th>

* <img src="..." alt="..." : Menampilkan gambar dengan teks alternatif.
* <a href="..." : Membuat gambar sebagai link ke website layanan cloud.

**6**. **BAGIAN<tbody> (Isi Tabel)**

Bagian <tbody> dalam tabel digunakan untuk menyusun **isi utama** dari tabel, yaitu data yang dibandingkan.

* <tbody>:Menandai bagian utama dari tabel yang berisi data.
* **Setiap <tr> (baris)** berisi **sel <td> (data)** yang berisi informasi terkait layanan cloud dan fiturnya.
* **colspan="2"** → Sel ini akan melebar ke **2 kolom**, digunakan untuk kategori besar seperti "Supported Languages".
* **rowspan="2"** → Sel ini akan menjangkau **2 baris ke bawah**, seperti pada "Similarity with Jupyter Notebook".
* **Elemen <br>** digunakan untuk membuat baris baru dalam satu sel.
* **Penggunaan <img>** dalam tabel untuk menampilkan ikon tanda centang yang tersedia pada tabel.
* **Penggunaan bgcolor:** untuk warna background tabel menjadi hijau

**7.LINK SUMBER**

<font size="2">

<p>As summarized from: <a href="https://www.dataschool.io/cloud-services-for-jupyter-notebook/" target="\_blank">

https://www.dataschool.io/cloud-services-for-jupyter-notebook/</a>

</p>

</font>

* <font size="2"> : Ukuran font 2
* <p> : Digunakan untuk teks menjadi satu paragraph
* <a> : Digunakan untuk menampilkan link Ketika diklik akan mengarah pada href yang dituju
* **target="\_blank"** membuat tautan terbuka di tab baru saat diklik.

**Hasil Running Program:**