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**

```
<!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>
```

```html
            </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>
```

```html
                    <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:

COMPARISON		CLOUD-BASED SERVICES					
		BINDER	KAGGLE KERNELS	GOOGLE COLABORATORY	MICROSOFT AZURE NOTEBOOKS	COCALC	DATALORE
Supported Languages		Python 2 & 3, Julia, R, and others	Python 3 and R	Python 2 & 3, and Swift	Python 2 & 3, R, and F#	Python 2 & 3, Julia, R, and others	Python 3
Similarity with Jupyter Notebook	Interface	✓			✓	✓	
	Keyboard Shortcuts	✓	✓		✓	✓	
Ease of Working with Datasets		✓	✓	✓	✓	✓	✓
Internet Access		✓	✓	✓	✓		✓
Ability to	Install Packages	✓	✓	✓	✓	✓	✓
	Work Privately		✓	✓	✓	✓	✓
	Share Publicly	✓	✓	✓	✓	✓	
	Collaborate		✓	✓		✓	✓
	Upgrade for Better Performance				✓	✓	
Documentation and Technical Support		✓	✓	✓	✓	✓	✓

As summarized from: https://www.dataschool.io/cloud-services-for-jupyter-notebook/