Mata Kuliah

Praktikum Pemrograman Dasar

Pertemuan ke- 2

Pengantar Pemrograman and installasinya

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Praktikum Pemrograman Dasar

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Important Factors

Compatibility

Popularity among Developers

High Level Language

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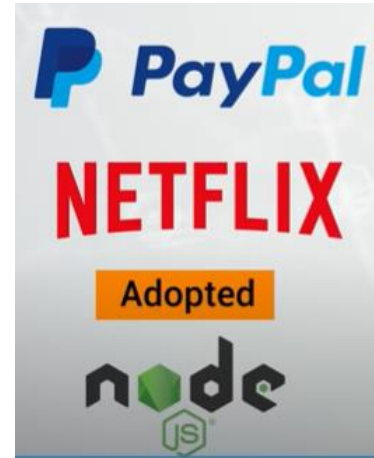
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- Python adalah bahasa pemrograman interpretatif multiguna.
- python lebih menekankan pada keterbacaan kode agar lebih mudah untuk memahami sintaks..
- Bahasa ini muncul pertama kali pada tahun 1991, dirancang oleh seorang bernama Guido van Rossum.
- Sampai saat ini Python masih dikembangkan oleh Python Software Foundation.
- Bahasa Python mendukung hampir semua sistem operasi, bahkan untuk sistem

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C++ "Hello World"

```cpp
#include <iostream.h>
main()
{
cout << "Hello World! ";
}
return 0
```

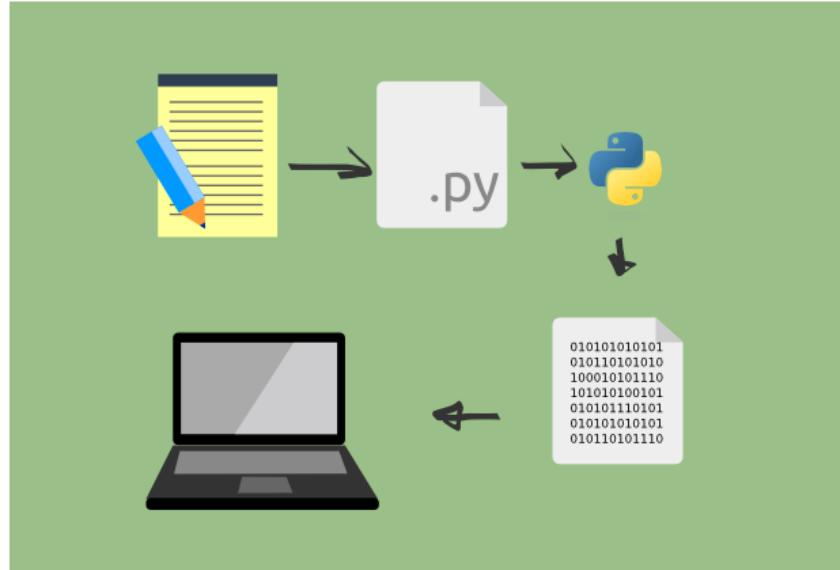**Java "Hello World"**

```java
class HelloWorldApp
  {
    public static void main(String[] args)
      {
        System.out.println("Hello World!");
      }
  }
```

Python

```python
print "Hello world"
```

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Persiapan :

- Python: Interpreter yang menerjemahkan bahasa python ke bahasa mesin, sehingga program bisa dijalankan.

- Teks Editor/IDE: Program yang digunakan untuk menulis kode.

Teks Editor/IDE :

Python latest
Pycharm IDE
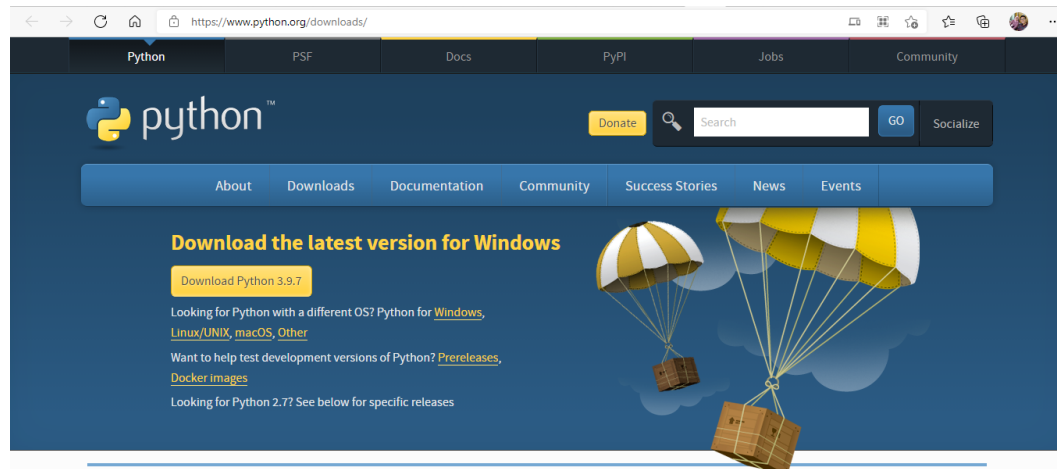Jupypter-Notebook,
Jupyter-Lab,
Google Colab

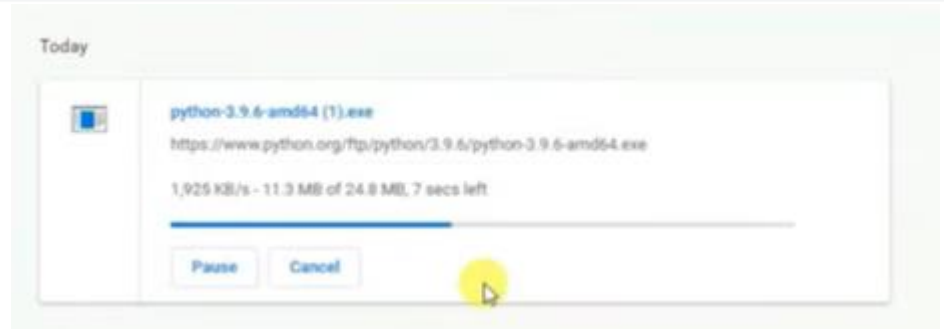# Praktikum Pemrograman Dasar

Langkah Installasi:

Download Python https://www.python.org/downloads/

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python™

Langkah Installasi:
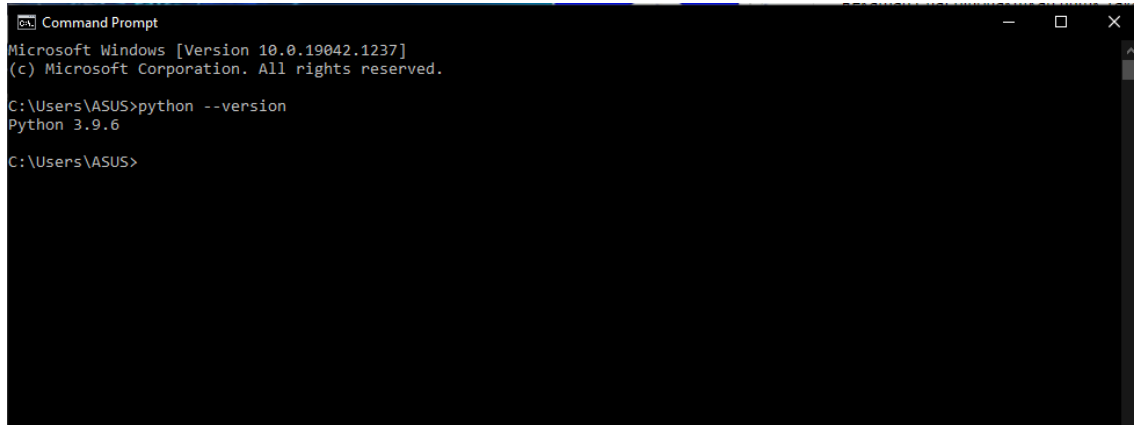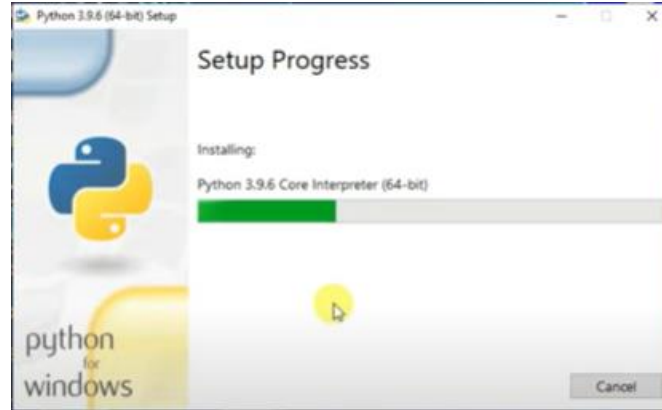
check

Praktikum Pemrograman Dasar

Cek Installasi:

Run CMD.

Type :

python --version

Praktikum Pemrograman Dasar

Installasi Jupyter Notebook:

Type :

pip install jupyter notebook


```
Command Prompt - pip install jupyter notebook
Microsoft Windows [Version 10.0.19042.1237]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ASUS>python --version
Python 3.9.6

C:\Users\ASUS>pip install jupyter notebook
Collecting jupyter
  Using cached jupyter-1.0.0-py2.py3-none-any.whl (2.7 kB)
Collecting notebook
  Downloading notebook-6.4.4-py3-none-any.whl (9.9 MB)
                                           | 9.9 MB 1.3 MB/s
Collecting nbconvert
  Downloading nbconvert-6.1.0-py3-none-any.whl (551 kB)
                                           | 551 kB 84 kB/s
Collecting qtconsole
  Downloading qtconsole-5.1.1-py3-none-any.whl (119 kB)
                                           | 119 kB 1.6 MB/s
Collecting ipywidgets
  Using cached ipywidgets-7.6.5-py2.py3-none-any.whl (121 kB)
Collecting jupyter-console
  Downloading jupyter_console-6.4.0-py3-none-any.whl (22 kB)
Collecting ipykernel
  Downloading ipykernel-6.4.1-py3-none-any.whl (124 kB)
                                           | 124 kB 1.3 MB/s
Collecting argon2-cffi
  Downloading argon2_cffi-21.1.0-cp35-abi3-win_amd64.whl (40 kB)
                                           | 40 kB 1.3 MB/s
Collecting tornado>=6.1
  Downloading tornado-6.1-cp39-cp39-win_amd64.whl (422 kB)
                                           | 422 kB 1.3 MB/s
Collecting jupyter-core>=4.6.1
  Downloading jupyter_core-4.8.1-py3-none-any.whl (86 kB)
                                           | 86 kB 2.0 MB/s
Collecting ipython-genutils
  Using cached ipython_genutils-0.2.0-py2.py3-none-any.whl (26 kB)
Collecting jupyter-client>=5.3.4
  Downloading jupyter_client-7.0.3-py3-none-any.whl (122 kB)
                                           | 122 kB 1.3 MB/s
Collecting prometheus-client
  Using cached prometheus_client-0.11.0-py2.py3-none-any.whl (56 kB)
Collecting jinja2
  Using cached Jinja2-3.0.1-py3-none-any.whl (133 kB)
Collecting traitlets>=4.2.1
```

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Menjalankan Jupyter Notebook

Type :

jupyter notebook

```
C:\Users\ASUS>jupyter notebook
[I 22:36:09.372 NotebookApp] Serving notebooks from local directory: C:\Users\ASUS
[I 22:36:09.372 NotebookApp] Jupyter Notebook 6.4.4 is running at:
[I 22:36:09.372 NotebookApp] http://localhost:8888/?token=114eaf89addcdae060f27d177cb95068d92c5d2662dcb79b
[I 22:36:09.372 NotebookApp]  or http://127.0.0.1:8888/?token=114eaf89addcdae060f27d177cb95068d92c5d2662dcb79b
[I 22:36:09.372 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 22:36:09.476 NotebookApp]

    To access the notebook, open this file in a browser:
        file:///C:/Users/ASUS/AppData/Roaming/jupyter/runtime/nbserver-9724-open.html
    Or copy and paste one of these URLs:
        http://localhost:8888/?token=114eaf89addcdae060f27d177cb95068d92c5d2662dcb79b
     or http://127.0.0.1:8888/?token=114eaf89addcdae060f27d177cb95068d92c5d2662dcb79b
c:\users\asus\appdata\local\programs\python\python39\lib\json\encoder.py:257: UserWarning: date_default is deprecated s
nutil.json_default.
    return _iterencode(o, 0)
```

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HELLO WORLD

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