

Python 3 Scripts

☒ How to Upgrade pip :

```
python -m pip install --upgrade pip
```

☒ Necessary Modules of Python 3 :

1. **pyttsx3** : *Converts text to speech*

```
pip install pyttsx3
```

2. **PyPDF2** : *Working with PDF files*

```
pip install pypdf2
```

3. **pandas** : *For DataFrame and Series, for data manipulation and analysis*

```
pip install pandas
```

4. **matplotlib** : *Data visualization with graph*

```
pip install matplotlib
```

or if error! :

```
pip install matplotlib==3.9.0
```

5. **scikit-learn** : *For data mining, data analysis, machine learning*

```
pip install scikit-learn
```

6. inflect : *For pluralization, number to words, ordinal numbers, word list etc*

```
pip install inflect
```

7. requests : *For interecting with web services, APIs and websites*

```
pip install requests
```

8. emoji : *Generate emojis 😊*

```
pip install emoji
```

9. pytest : *test python code by asserting function from main code*

```
pip install pytest
```

10. pyfiglet : *Create ASCII art text*

```
pip install pyfiglet
```

11. tabulate : *Generate fomatted table in plain text*

```
pip install tabulate
```

12. validator-collection : *Provide a collection of validators for various type of data*

```
pip install validator-collection
```

13. Pillow : *Python Imagine Library (PIL) fork that adds image processing capabilities to Python.*

```
pip install pillow
```

14. fpdf2 : *It can create and manipulate PDFs by adding text, images, tables and other elements.*

```
pip install fpdf2
```

15. cowsay : *It generates ASCII art of cow (default) and different animal shape and cartoon style*

```
pip install cowsay
```

16. Jupyter : *An open source project that provides tools for interactive computing and data analysis, specially known for the **Jupyter Notebook***

```
pip install jupyter
```

- **Set Environment-Path for Jupyter :**

After installing Jupyter, it is important to set the path in environment variables. For that copy the path of python installation (**username -> Appdata -> Roaming -> Python -> Python.(version.io 3.12.4) -> Scripts**) and copy the path. Then go to **Edit the system environment variables** the click **Environment Variables** and in the **Path** section under **User Variables** set **New** path you copied.