**Working with wav files in Python**

Python provides a module called pydub to work with audio files. pydub is a Python library to work with only .wav files. By using this library we can play, split, merge, edit our .wav audio **files.**

**Installation**

**1.Open window promot and use command:**

**Pip install scipy**

**2.Update your PIP at window prompt**

**python -m pip install --upgrade pip**

3.Install SciPy from the defaults or conda-forge channels with conda**:**

* **conda install scipy**
* **pip install simpleaudio**

**some functionalities that can be performed by pydub:**

* **Playing audio file.**
* **We can get certain information of file like length channels.**
* **Increase/Decrease volume of given .wav file.**
* **Merging two or more audio files.**
* **Exporting an audio file.**
* **Splitting an audio file.**

1. **Playing Audio File:**This is done using**play()**method.

from pydub import AudioSegment

from pydub.playback import play

# Import an audio file

# Format parameter only

# for readability

wav\_file = AudioSegment.from\_file(file = "Sample.wav", format = "wav")

# Play the audio file

play(wav\_file)

**2. Knowing about .wav file:** for this we will use **attributes**of audio file object.

3. **Increasing/Decreasing volume of the file**: By using ‘+’ and ‘-‘ operator.

4. **Merging files:**This is done using **‘+’**operator.

5. **Exporting files:** This is done using**export()** method.

**6) Splitting Audio:** Splitting audio using **split\_to\_mono()** method.