

## AUDIO REPORT CONVERSION OF .WAV FILE TO .MP3 FILE

First of all , What does file format mean?

***File format is the structure of file that tells the program how to display its content***

### **How to convert from .WAV to .MP3 file ?**

**1. first we have to install pydub command**

=> pip install pydub

**2. second install ffmpeg command**

=> apt install ffmpeg

**3. third getting ffmpeg setup**

=> depending on what do you use windows,mac,linux

- WINDOWS:

- 1) download and extract libvorbis from windows binaries
- 2) add the libvorbis folder to your path envvar
- 3) pip install pydub

- MAC:

brew install ffmpeg with libvorbis with ffplay with theora

- linux:

apt get install libav-tools libavcodec-extra-53

### **the Difference between WAV and MP3 file :**

- WAV file:

***it stores audio content with no compression as it is an uncompressed file , this makes WAV files much larger than other file types , they store audio in high quality , they are widely used and can be opened on windows media player and many more..***

- **MP3 file:**

*the most popular audio storage format in use ,typically it stores music unlike other formats , it stores audio in much smaller file size to save memory . It still one of the most used file formats . the quality can differ because it depends on the “bit rate” that is used for compression . “common bit rates are 128,192 and 256 KBPS*

**=>> CODE USING PYTHON :**

```
import os
import pydub
import glob

wav_files=glob.glob('./*.wav')
for wav_file in wav_files:
    mp3_file=os.path.splitext(wav_file)[0]+'mp3'
    sound =pydub.AudioSegment.from_wav(wav_file)
    sound.export(mp3_file,format="mp3")
    os.remove(wav_file)
print("conversion complete")
```