

Task 1 – Audio Processing

Please find the *task1_code.py* file in the folder *Task1_Practice*. Modify the *task1_code.py* to accomplish the following:

Given:

A set of test audio files, each containing

- Notes separated by silence as shown in Figure 1.(notes and silence can have random duration).
- A minimum of 12 and maximum of 33 notes.
- Only C6 to B8 notes will be given in audio file.

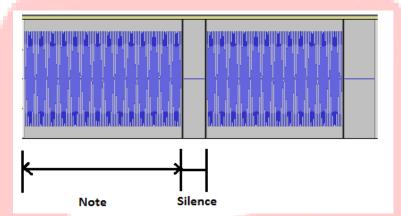


Figure 1: Part of Audio File showing Note and Silence

A set of five test files is given at: *Practice/test_audio_files*. An example test audio file is shown in Figure 2.

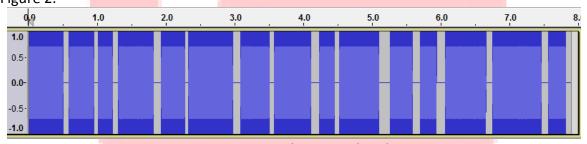


Figure 2: Example Test Audio File

For each audio file, output text file is given at: Practice/test_output_files which contains the notes that are used in audio file. An example output text file for above audio file is shown in Figure 3.

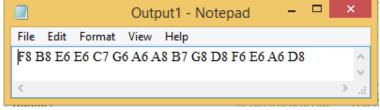


Figure 3: Example Output Text File



Problem Statement:

A "snippet" of outline code is given in *task1_code.py* file.

- Teams modify the *play (file)* function in the *task1_code.py* file to take a test audio file as input and return identified notes on Python IDLE console.
- For example, given the test file in Figure 2 as input, the output on the Python IDLE console will look like:

Figure 4: Output on Python IDLE Console

Teams can verify the output with the help of output text files given in the folder Practice/test_output_files.

