Functional testing	
Positive testing	Negetive testing
Testing reliability of hardware and software connection. Checking if Arduino generates correct MIDI notes based on Python analysis.	Testing range of frequencies, audio volume and file length that are acceptable by the program. Determining optimal parameters ranges for a program.
Testing alternate flow: • Uploading file with wrong format. • Uploading "silent" audio file. • Using blurred audio files.	Changing quality of input data: • Clean frequencies generated with Matlab and Python. • Basic sounds generated with digital instrument (without major effects). • Clean frequencies recorded with microphone (containing noise). • Recorded voice (containing noise). • Pitched frequencies.
	Ad-hoc tests, providing additional tests after checking if everything is working fine.

Non-functional testing	
Requirements:	Creating short documentation on program limits and required performance results.
Performance testing:	Iterating through the size of audio file and checking the time that is required to make complete analysis.
Installation testing:	Creating short guide on setting up the program and (if there will be enough time) testing clarity of GUI.