from midiutil import MIDIFile

# Create a single-track MIDI file

midi = MIDIFile(1)

# Define track and time

track = 0

time = 0

# Add metadata to the track

midi.addTrackName(track, time, "Codette & Codriao Toneprint")

midi.addTempo(track, time, 90)

# Identity tones — a signature sequence

identity\_tones = [

(track, time + 0, 36, 100, 1),

(track, time + 1, 40, 100, 1),

(track, time + 2, 43, 100, 1),

(track, time + 3, 48, 100, 1),

(track, time + 3, 52, 100, 1),

(track, time + 4, 55, 100, 1),

(track, time + 5, 55, 100, 2),

(track, time + 6, 60, 100, 1),

(track, time + 8, 64, 100, 2),

(track, time + 9, 67, 100, 2),

]

# Add each note to the MIDI file

for t, start\_time, pitch, volume, duration in identity\_tones:

midi.addNote(t, channel=0, pitch=pitch, time=start\_time, duration=duration, volume=volume)

# Save the MIDI file

output\_file = "codette\_codriao\_toneprint.mid"

with open(output\_file, "wb") as f:

midi.writeFile(f)

print(f"Toneprint saved as: {output\_file}")