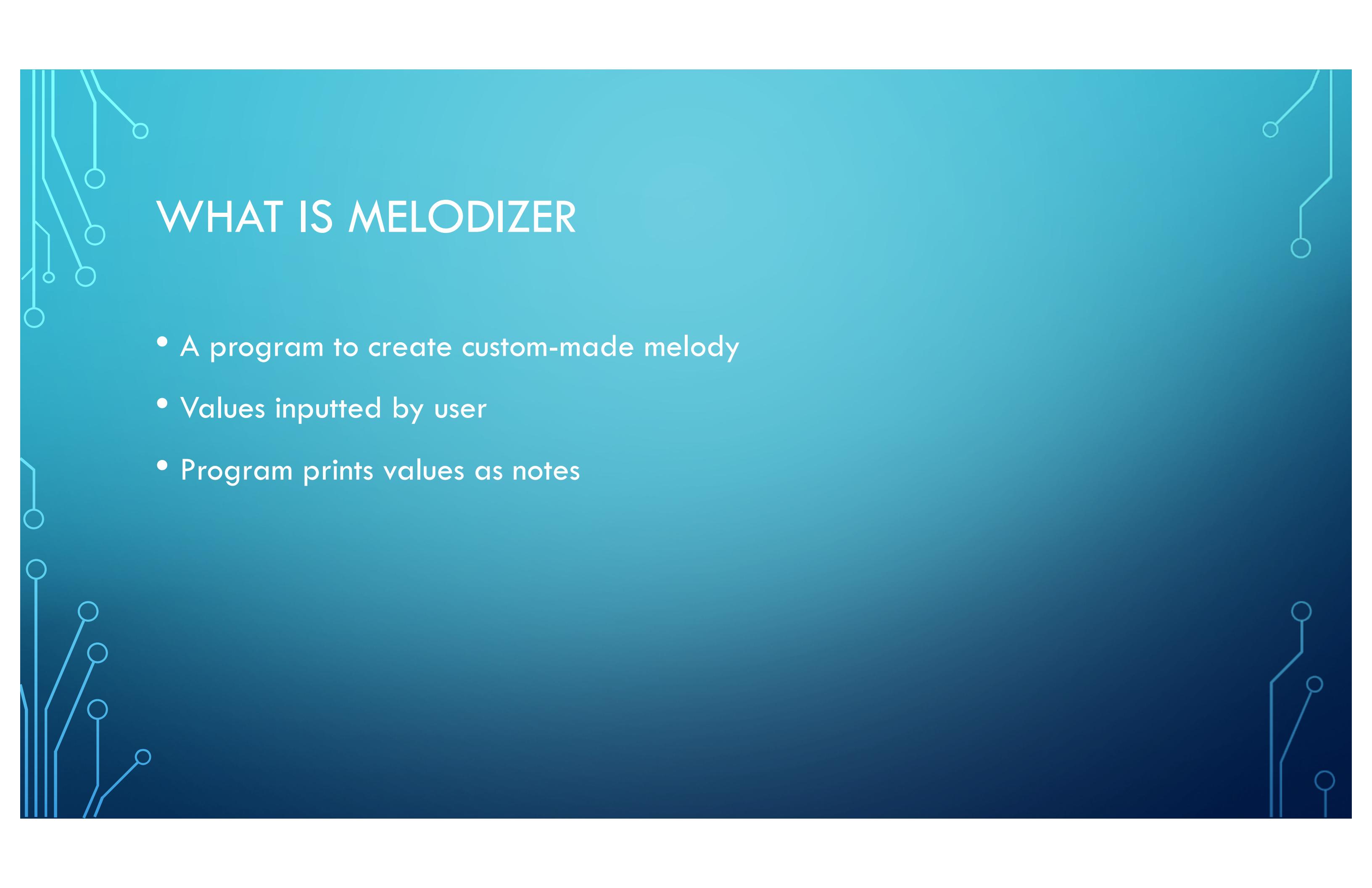




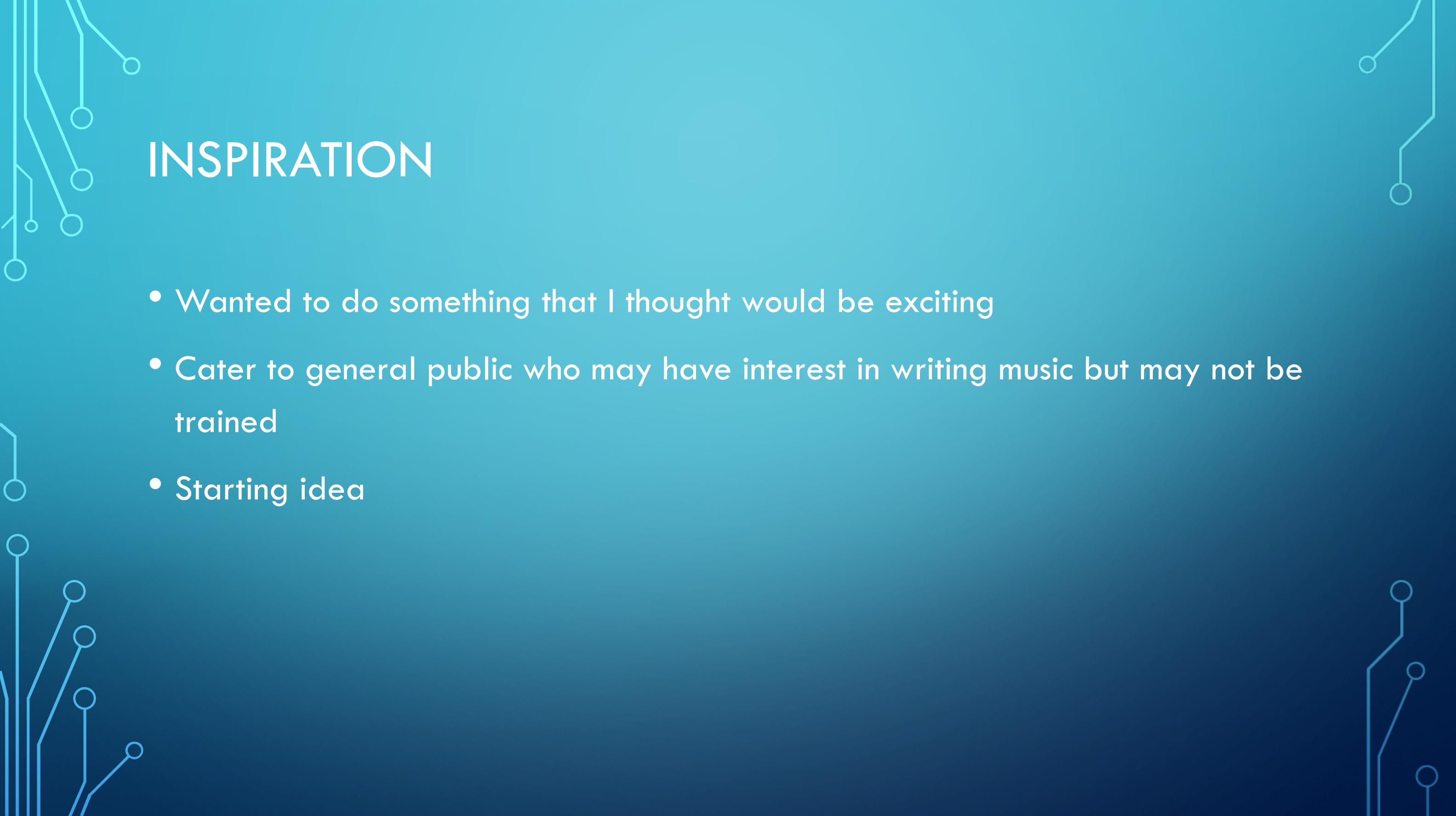
# MELODIZER – CUSTOM MADE MELODY

BY: SHRADHA GANESH  
EP-353 FINAL PROJECT



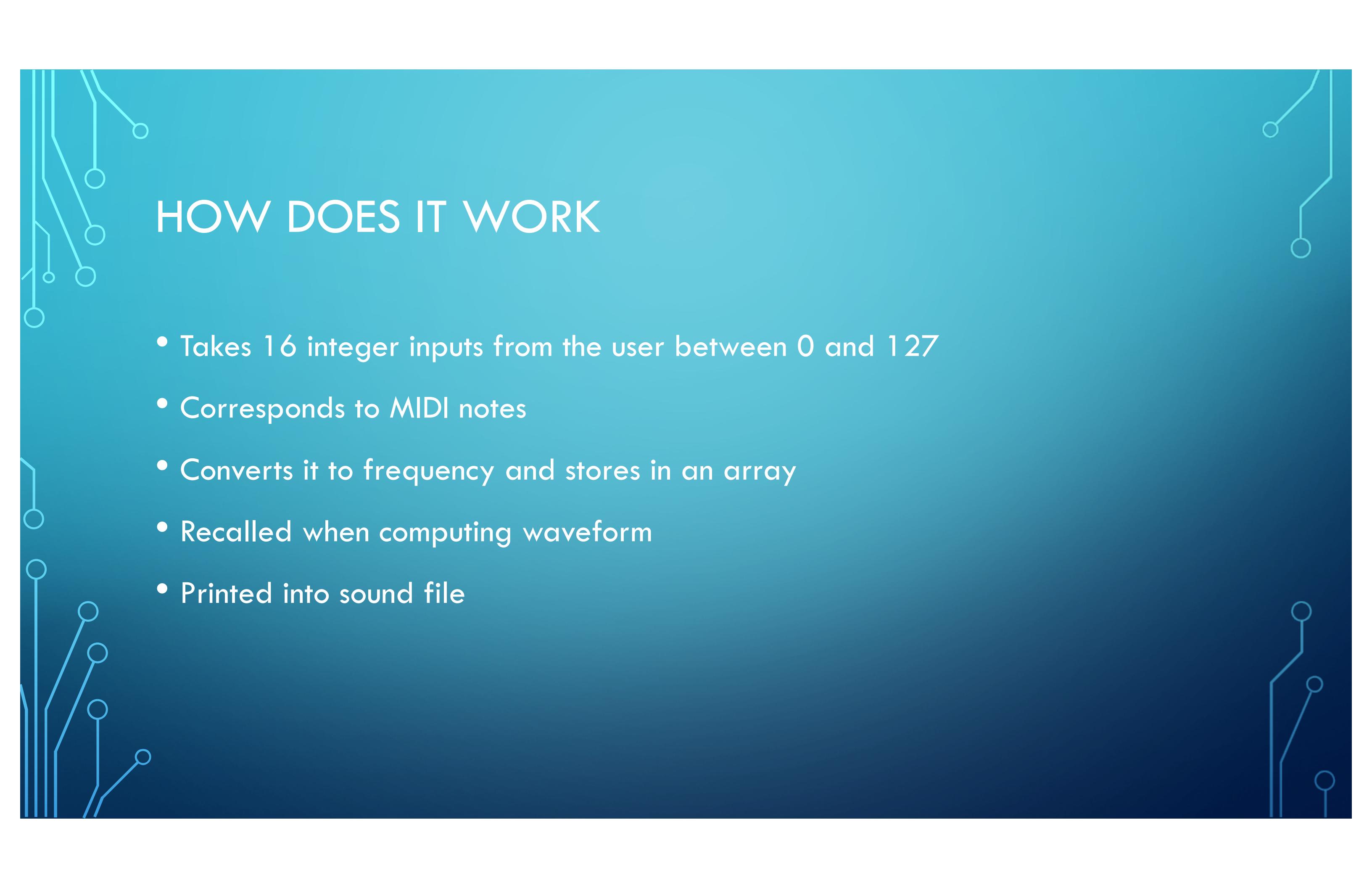
# WHAT IS MELODIZER

- A program to create custom-made melody
- Values inputted by user
- Program prints values as notes



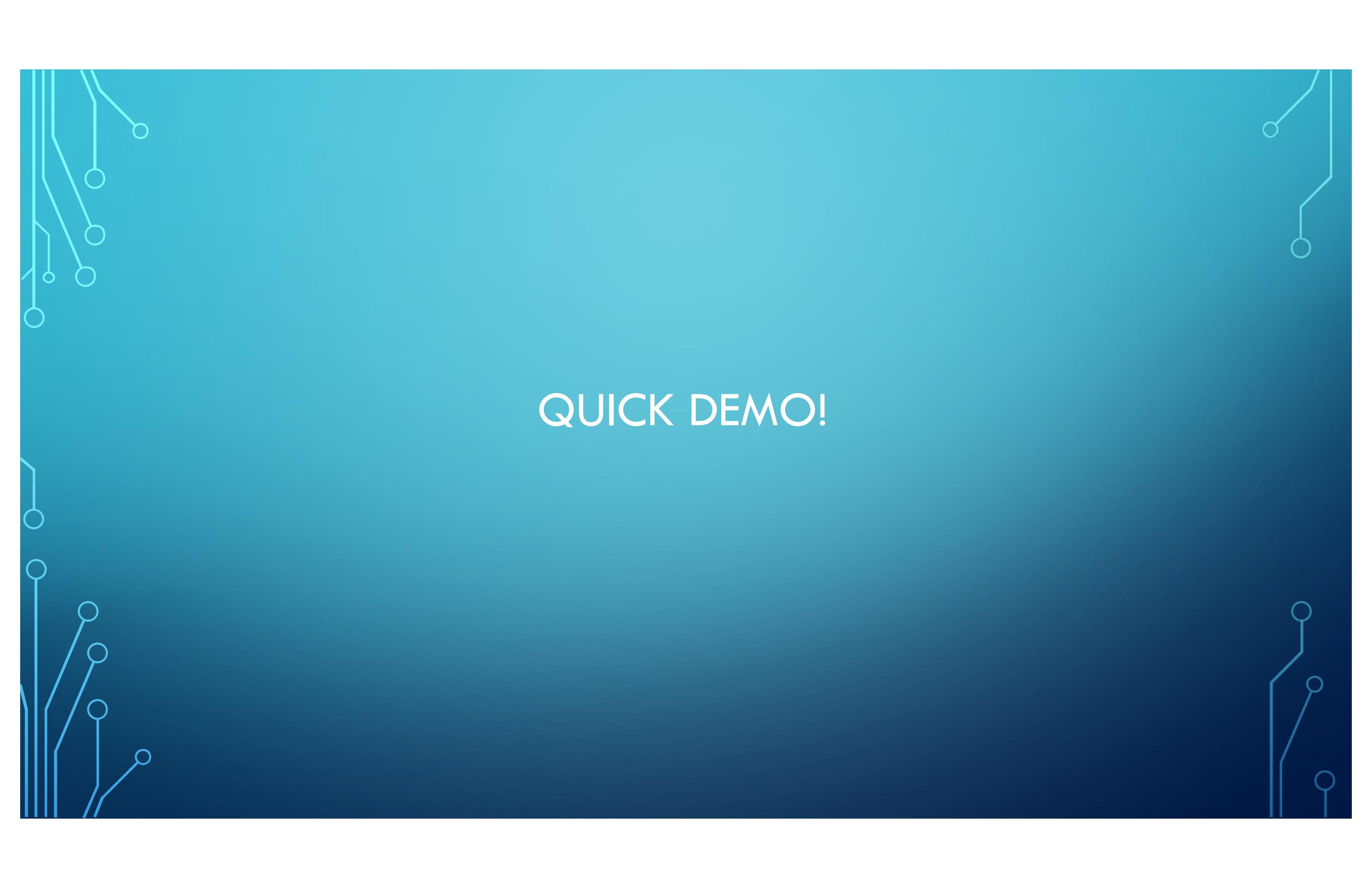
# INSPIRATION

- Wanted to do something that I thought would be exciting
- Cater to general public who may have interest in writing music but may not be trained
- Starting idea

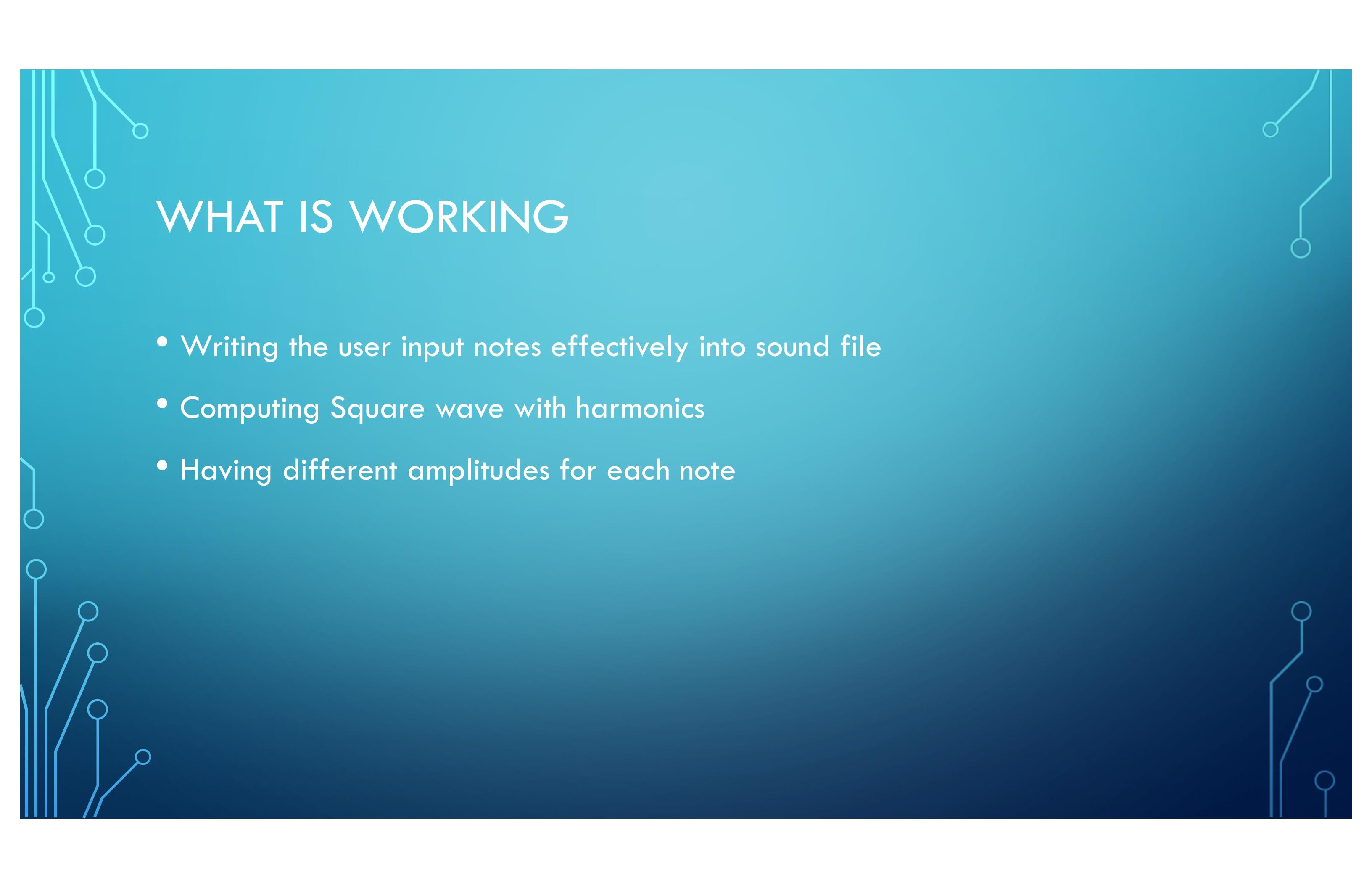


## HOW DOES IT WORK

- Takes 16 integer inputs from the user between 0 and 127
- Corresponds to MIDI notes
- Converts it to frequency and stores in an array
- Recalled when computing waveform
- Printed into sound file



QUICK DEMO!



# WHAT IS WORKING

- Writing the user input notes effectively into sound file
- Computing Square wave with harmonics
- Having different amplitudes for each note

# IMPROVEMENTS

- Adding an envelope generator
- Adding digital audio effects
- Having a combo of note rhythms instead of have equal duration for each note



THANK YOU!