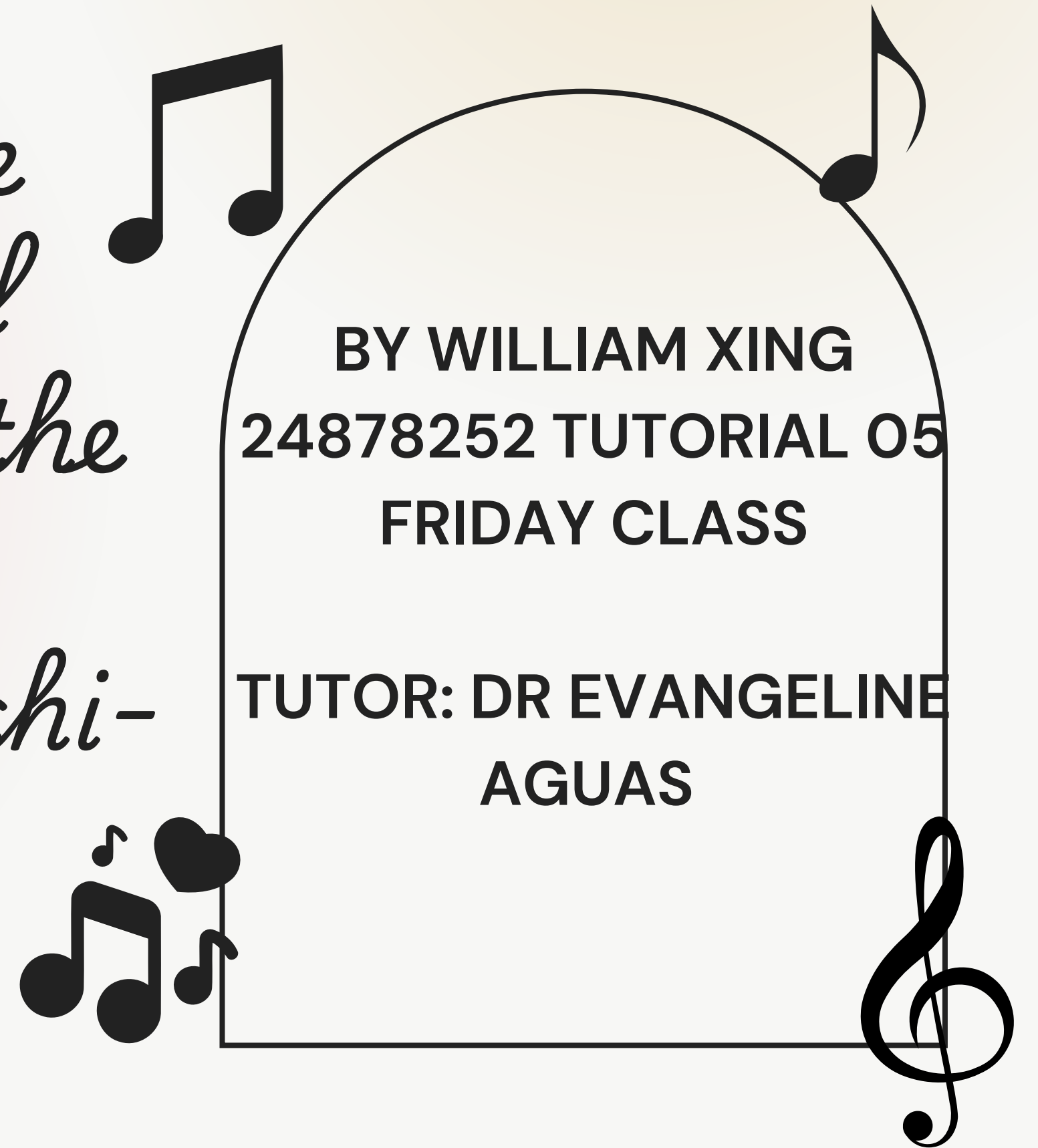


*52685 Assignment 2 Code  
Prototype pitch on musical  
composition project about the  
music Merry-Christmas -  
Mr.-Lawarence-by-Ryuichi-  
Sakamoto*

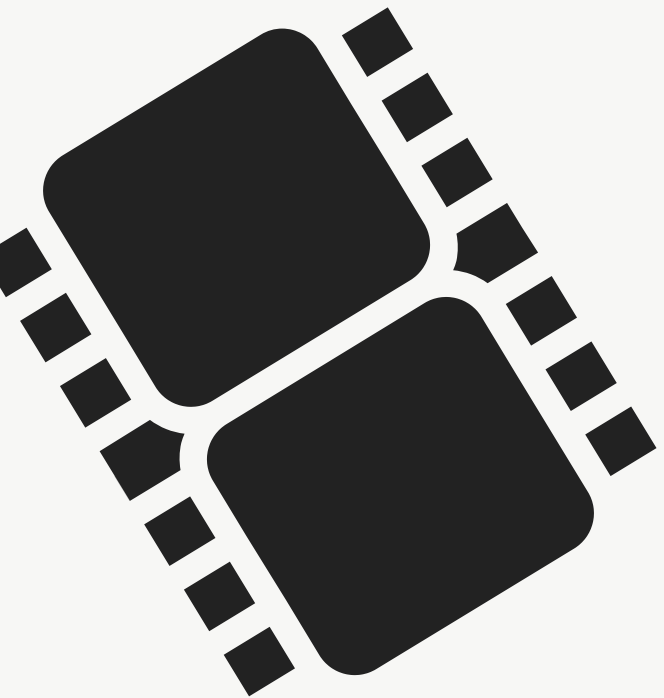


BY WILLIAM XING  
24878252 TUTORIAL 05  
FRIDAY CLASS  
  
TUTOR: DR EVANGELINE  
AGUAS

# TABLE OF CONTENTS



- PROJECT NAME: MUSIC COMPOSITION PROJECT ABOUT THE MUSIC  
MERRY CHRISTMAS MR.LAWARENCE WRITTEN BY RYUICHI-  
SAKAMOTO
- PROJECT CHALLENGE
- PROJECT TYPE
- CODING ENVIRONMENT
- RESOURCE REQUIREMENTS
- PROJECT TIMELINE

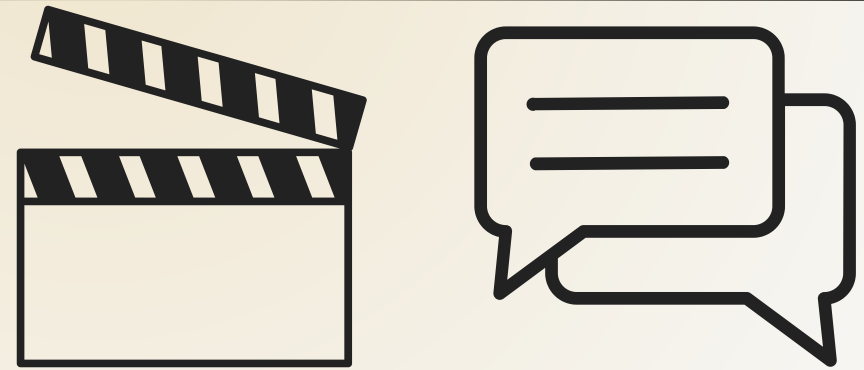


# PROJECT CHALLENGE

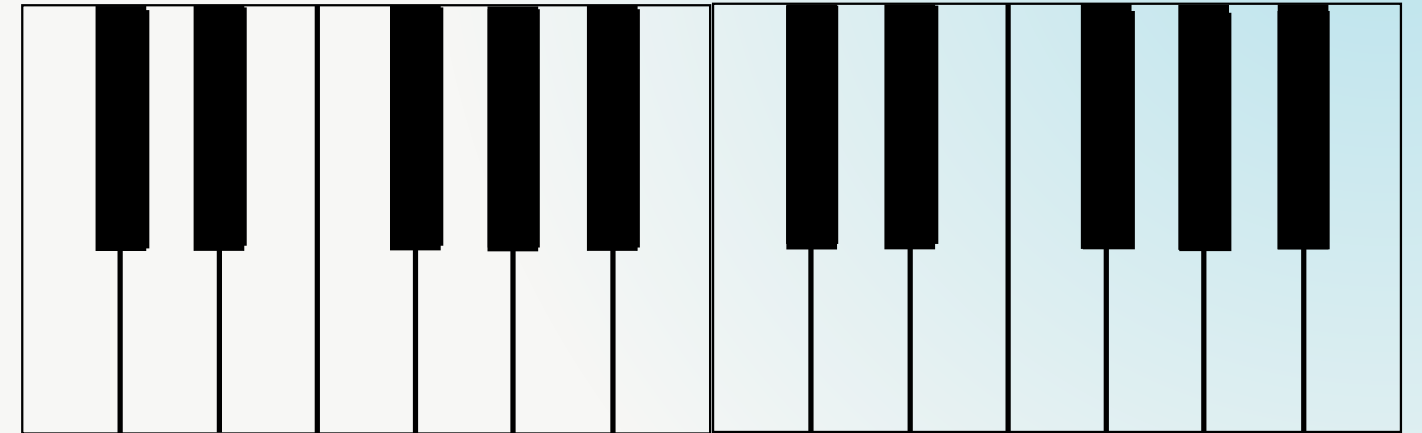


- LONGER SONG TRACK LENGTH
- THE TRANSFORMATION PROCESS OF MUSIC LANGUAGE TO  
COMPUTER LANGUAGE
- ABSTRACTS COMPLETED TUNES WITH ERRORS





# PROJECT TYPE

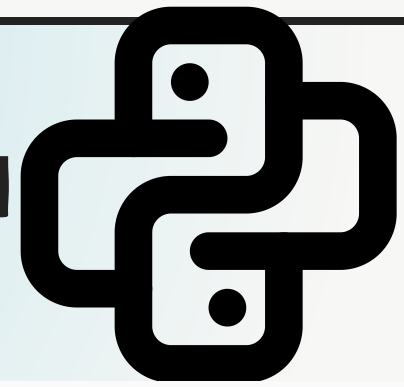


- MUSICAL COMPOSITION PROJECT BY SUMMARISING A SHORT CLIP FROM THE SONG  
MERRY CHRISTMAS MR. LAWARENCE
- LISTENING TO MUSIC IS PART OF MY HOBBY
- WITH THE POWER OF TUNEPAD AND PYTHON PROGRAMMING, MY LOVE AND  
UNDERSTANDING OF MUSIC IS BEING EXPRESSED





# CODING ENVIRONMENT



# 05

52685-Assignment-2-Merry-Christmas-Mr.-La...

Code

Tracks

Mixer

128 bpm

4/4 time

C major

- I choose Tunepad as my music programming environment. The TunePad itself it not only provide a platform to combine programming and music creation. Also have rich functions allowing me to have great freedom and flexibility in creation.
- 1. Power and richness of functionality
- 2. The extent to which the tutorials are sound and transferable
- 3. Realizability of project completion

The screenshot shows the Tunepad interface for a piano track. The top section displays the track name 'Piano' and '128 BEATS — 55 LINES'. Below this is a piano roll with a timeline from beat 2 to 18. The piano roll shows a sequence of notes represented by horizontal bars. The bottom section is a code editor showing a list of notes for each measure:

```
1 ▾ note_list = [ [88, 86, 88, 93, 88, 86, 88, 86, 88, 93, 88, 86], # measure 1
2 ▾ [88, 86, 88, 91, 88, 86, 88, 86, 88, 91, 88, 86], # measure 2
3 [86, 84, 86, 91, 86, 84, 86, 84, 84, 91, 86, 84], # measure 3
4 [86, 84, 86, 91, 86, 84, 83, 81, 83, 88, 83, 81], # measure 4
5 [88, 86, 88, 93, 88, 86, 88, 86, 88, 93, 88, 86], # measure 5
6 [88, 86, 88, 91, 88, 86, 88, 86, 88, 91, 88, 86], # measure 6
7 [86, 84, 86, 95, 86, 84, 91, 84, 84, 95, 86, 84], # measure 7
```

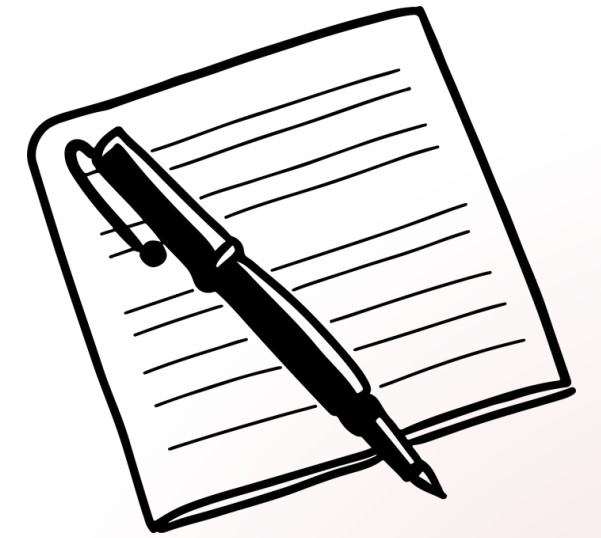
+ ADD CELL

Piano

Musicbox

Marimba

# RESOURCE REQUIREMENTS



- MUSICAL SKETCHES FOR PROFESSIONAL TEACHERS
- PROJECT EXAMPLE OF PLAYING CHORDS ON TUNEPAD  
[HTTPS://LEARN.TUNEPAD.COM/TUTORIALS/STAND-BY-ME/](https://learn.tunepad.com/tutorials/stand-by-me/)
- ASSIGNMENT 1 [HTTPS://TUNEPAD.COM/PROJECT/85615](https://tunepad.com/project/85615)

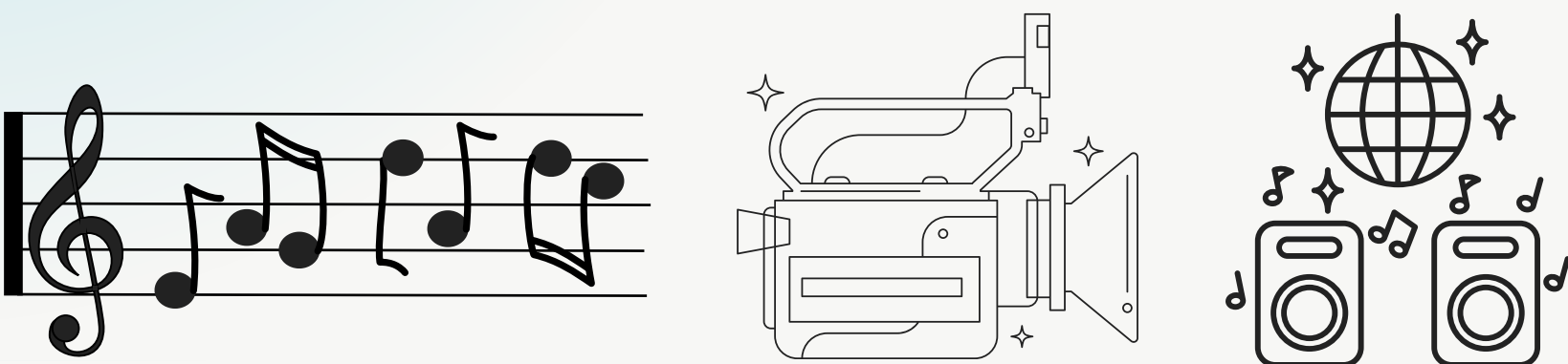
- ACADEMIC LITERATURE RELATED TO MUSIC PROGRAMMING AND PYTHON (HORN, M. S., WEST, M., & ROBERTS, C. (2022). INTRODUCTION TO DIGITAL MUSIC WITH PYTHON PROGRAMMING. LEARNING MUSIC WITH CODE. FOCAL PRESS.)
- SYSTEMATIC DOCUMENTATION OF PYTHON PROGRAMMING MATERIALS (VAN ROSSUM G, DRAKE JR F L. PYTHON TUTORIAL [M]. AMSTERDAM, THE NETHERLANDS. CENTRUM VOOR WISKUNDE EN INFORMATICA, 1995.)

MY PROJECT LINK: [HTTPS://TUNEPAD.COM/PROJECT/90216](https://tunepad.com/project/90216)

# PROJECT TIMELINE MUSIC

THE TIME PERIOD FOR THE ENTIRE MUSIC COMPOSITION PROJECT WAS DIVIDED INTO THREE PHASES OF THREE WEEKS

- WEEK 1: CONVERT THE SCORE INTO A TUNE UNDER THE GUIDANCE OF A PROFESSIONAL MUSIC TEACHER.
- WEEK 2: WRITE THE CODE ON TUNEPAD ACCORDING TO THE CONVERTED MUSIC.
- WEEK 3: WRITE A REFLECTION REPORT BASED ON THE COMPLETED PROJECT, COMPLETE A 3-MINUTE PRESENTATION TO INTRODUCE THE PROJECT, AND STORE THE SUPPORTING MATERIALS IN A GIT REPOSITORY.



**THANK YOU!**  
**FOR WATCHING AND**  
**LISTENING**