

Pao-Ying-Choop

กลุ่ม C07

สมาชิกผู้น่ารัก



นางสาว พรวรา บุญจรัส
รหัส 1911310207
PPT



นาย หฤษฎ์ เบญจางคประเสริฐ
รหัส 1911310264
เขียนโปรแกรม

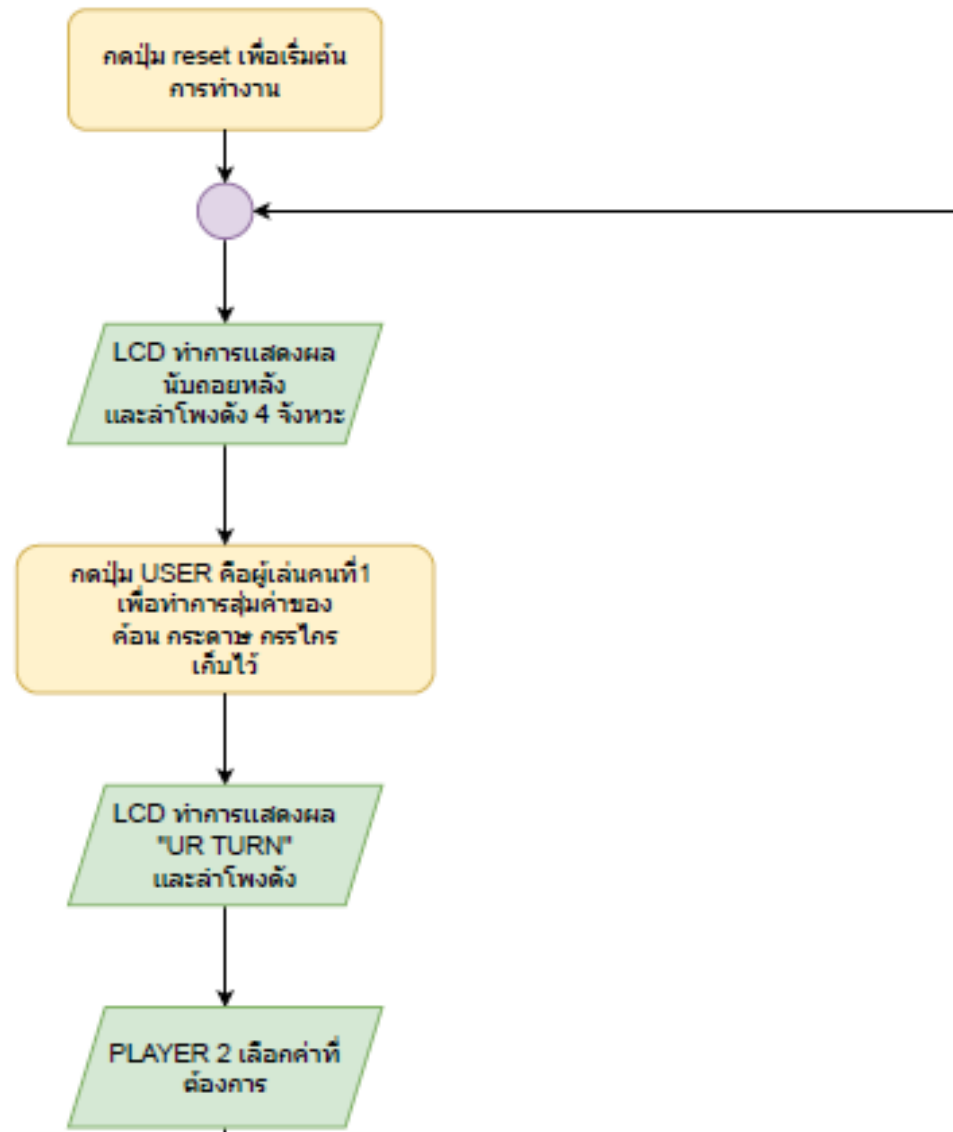


นาย ณัฐวัฒน์ สกุลปยานนท์
รหัส 1911310363
เขียนโปรแกรม

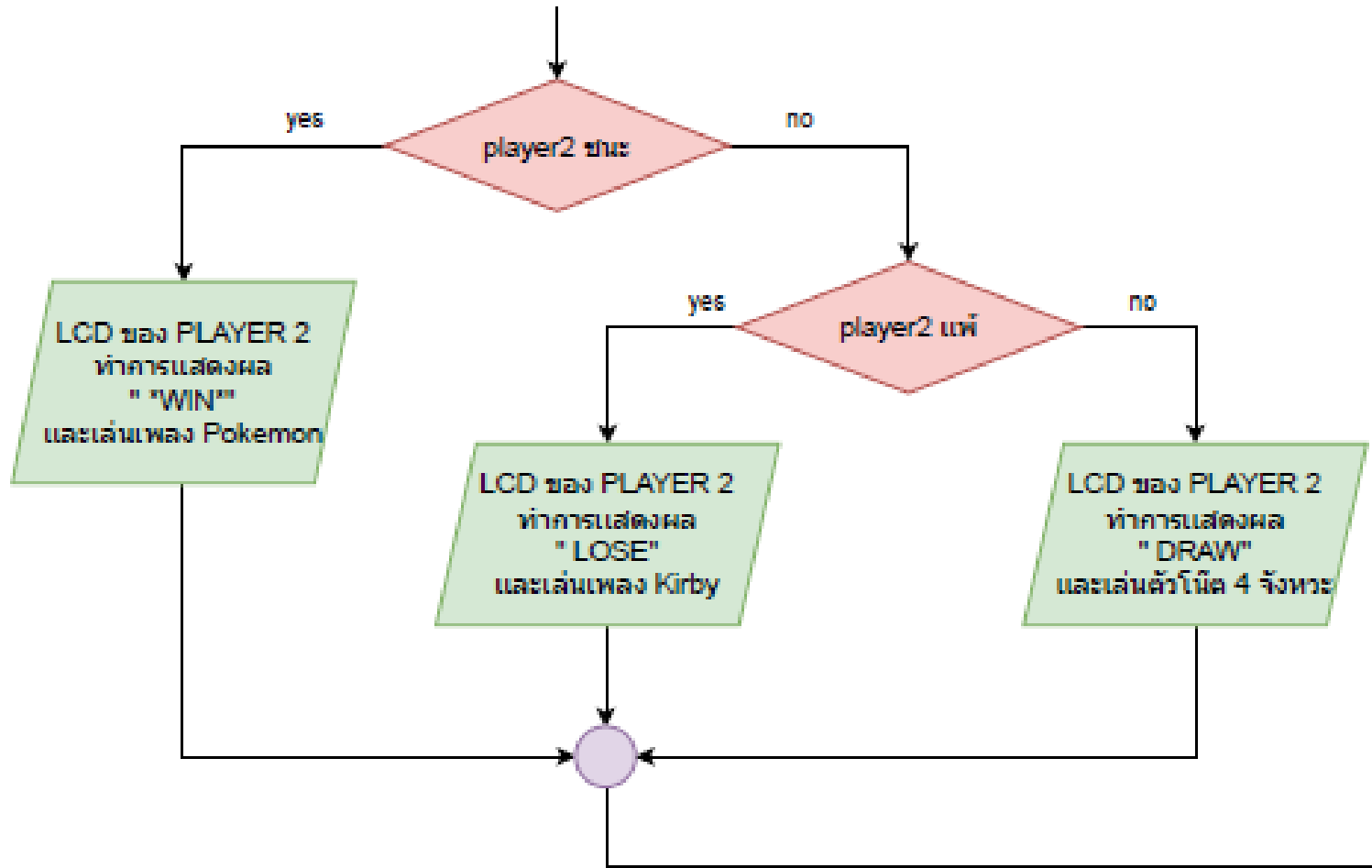


นาย วชิระ ตันไพศาล
รหัส 1911310389
Hardware

Overall Workflow



Overall Workflow



TOOLS



STM32L152RB



USER BUTTON



SPEAKER

Architectural design

Port / Pin	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A	USER Button	LCD	LCD	LCD	Available pins	Available pins	No pin out	No pin out	LCD	LCD	LCD	Push Button	Push Button	Special pins	Special pins	LCD
B	No pin out	No pin out	Special pins	LCD	LCD	LCD	Speaker	LED	LCD	LCD	LCD	LCD	LCD	LCD	LCD	LCD
C	LCD	LCD	LCD	LCD	No pin out	No pin out	LCD	LCD	LCD	LCD	LCD	LCD	Available pins	No pin out	No pin out	No pin out
D	No pin out	No pin out	Available pins	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out
H	Special pins	Special pins	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out	No pin out

 Available pins


 LED

 LCD

 Special pins

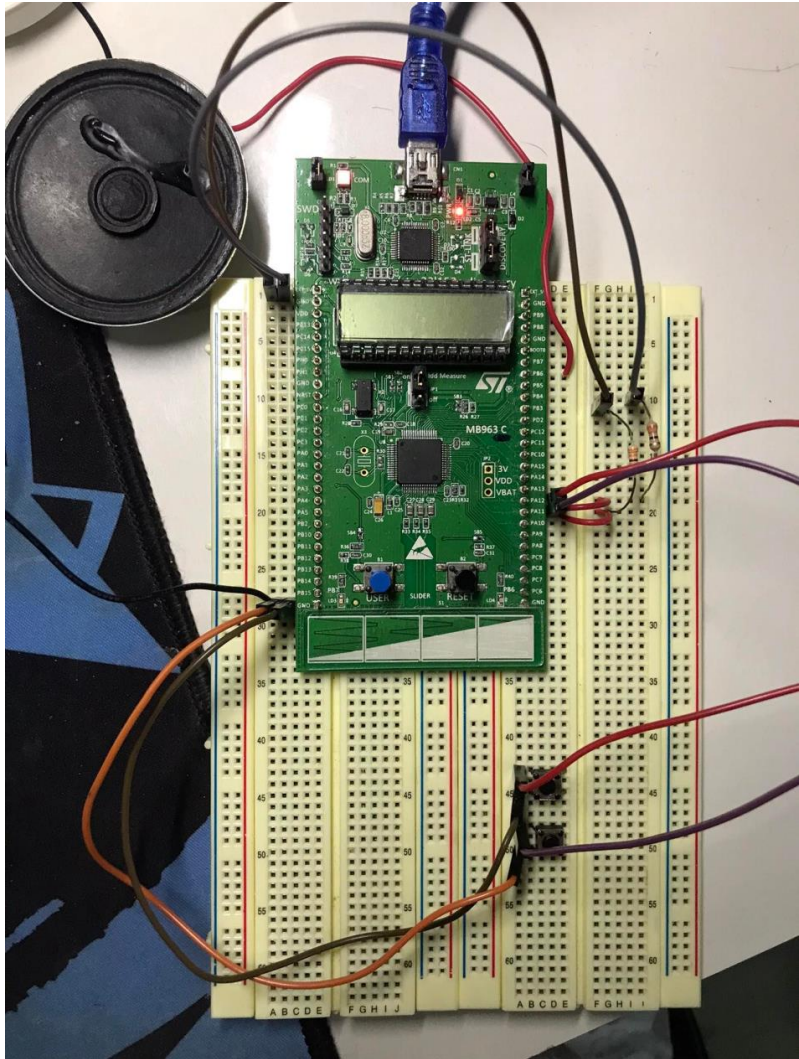
 Speaker

 Push Button

 No pin out

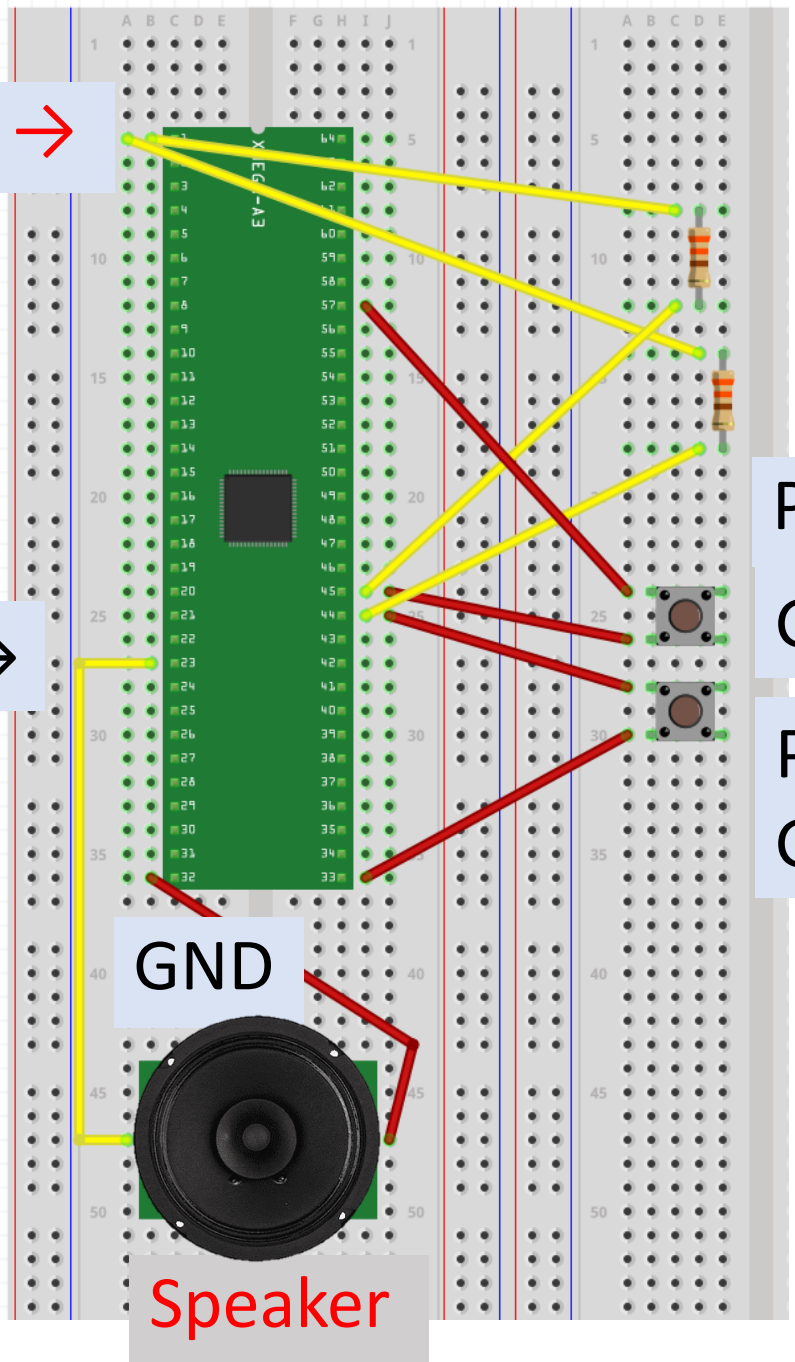
 USER Button

Hardware + Circuit



VCC 3V →

PB6 →



PA12

GND

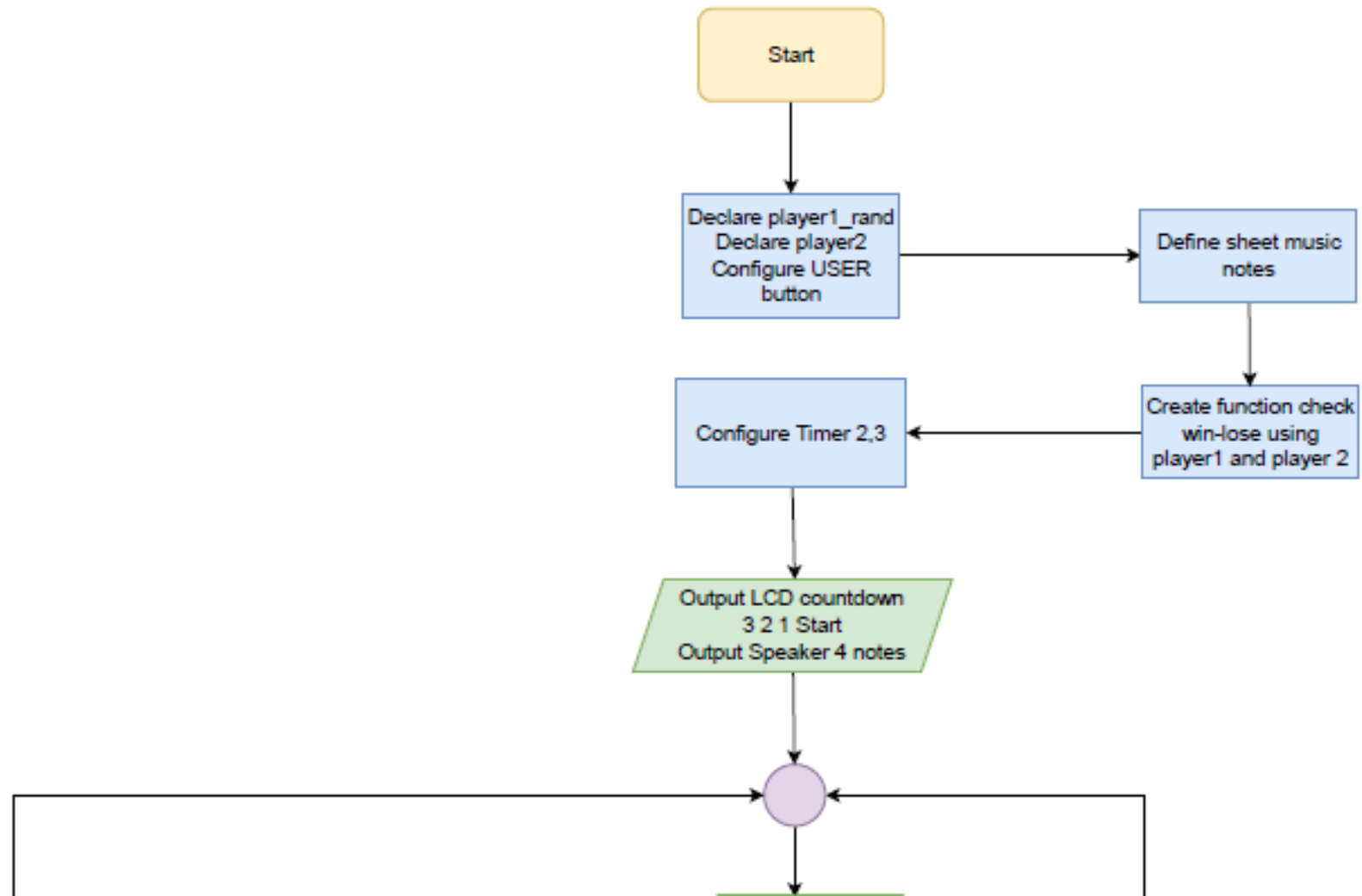
PA11

GND

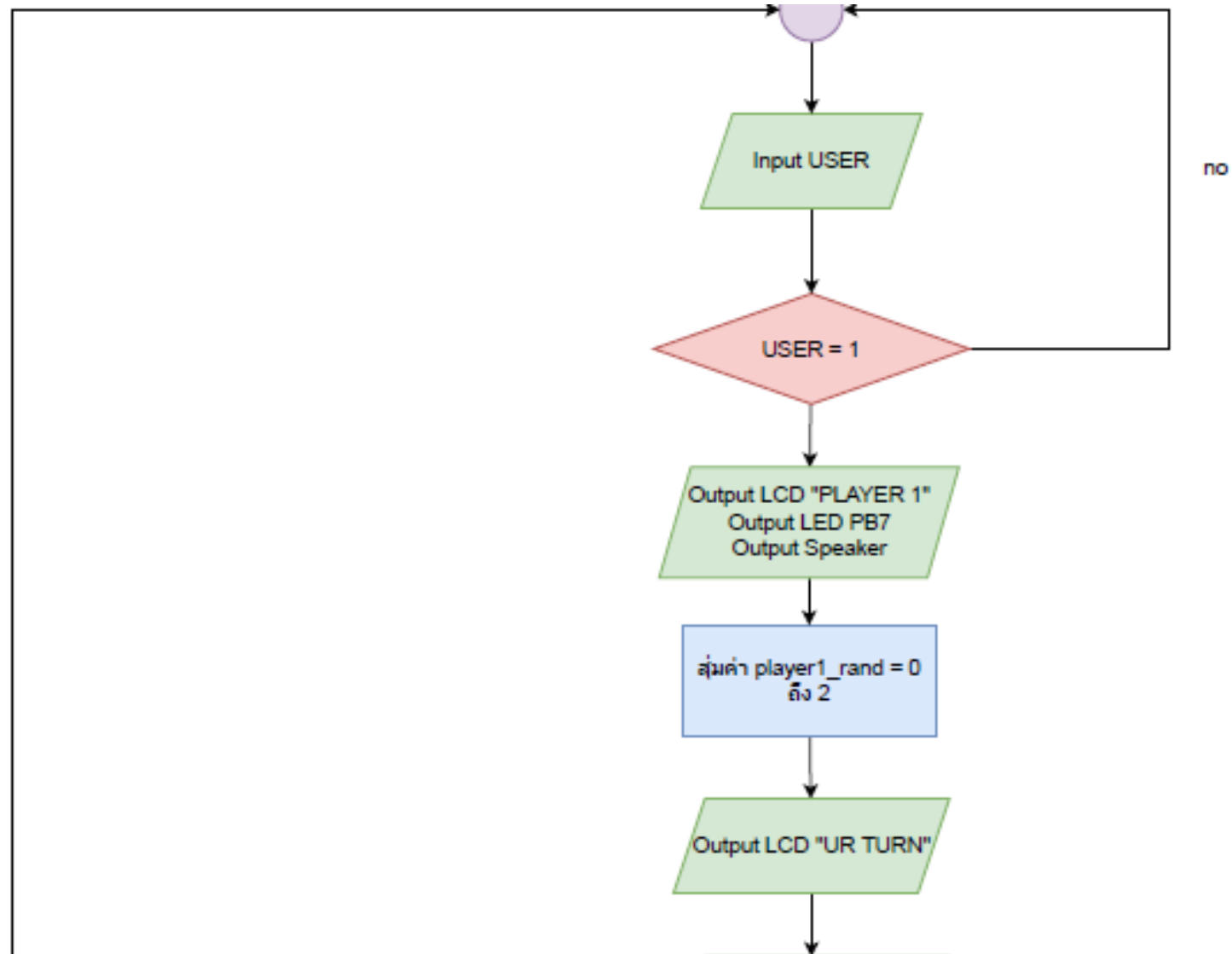
GND

Speaker

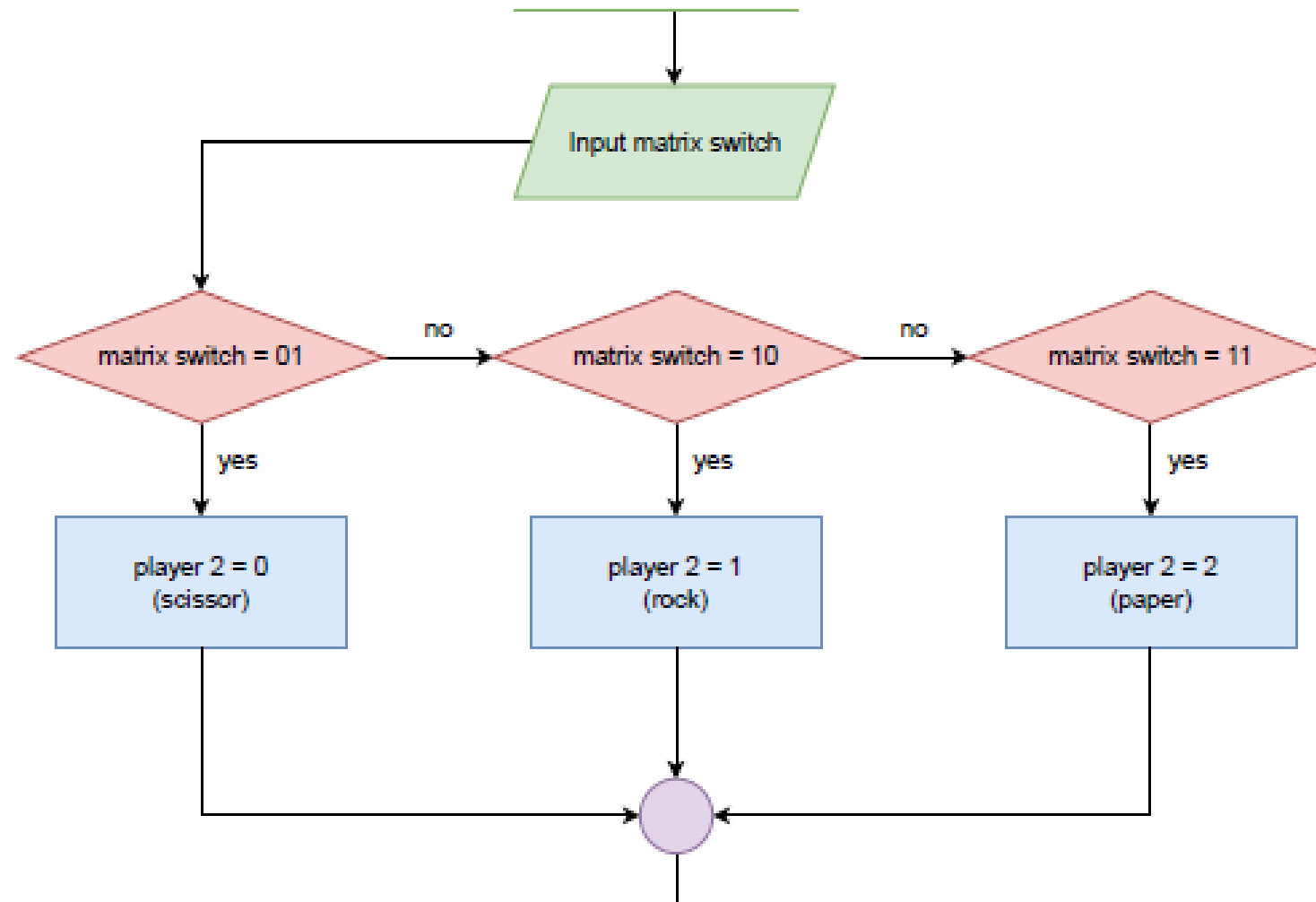
Coding flowchart



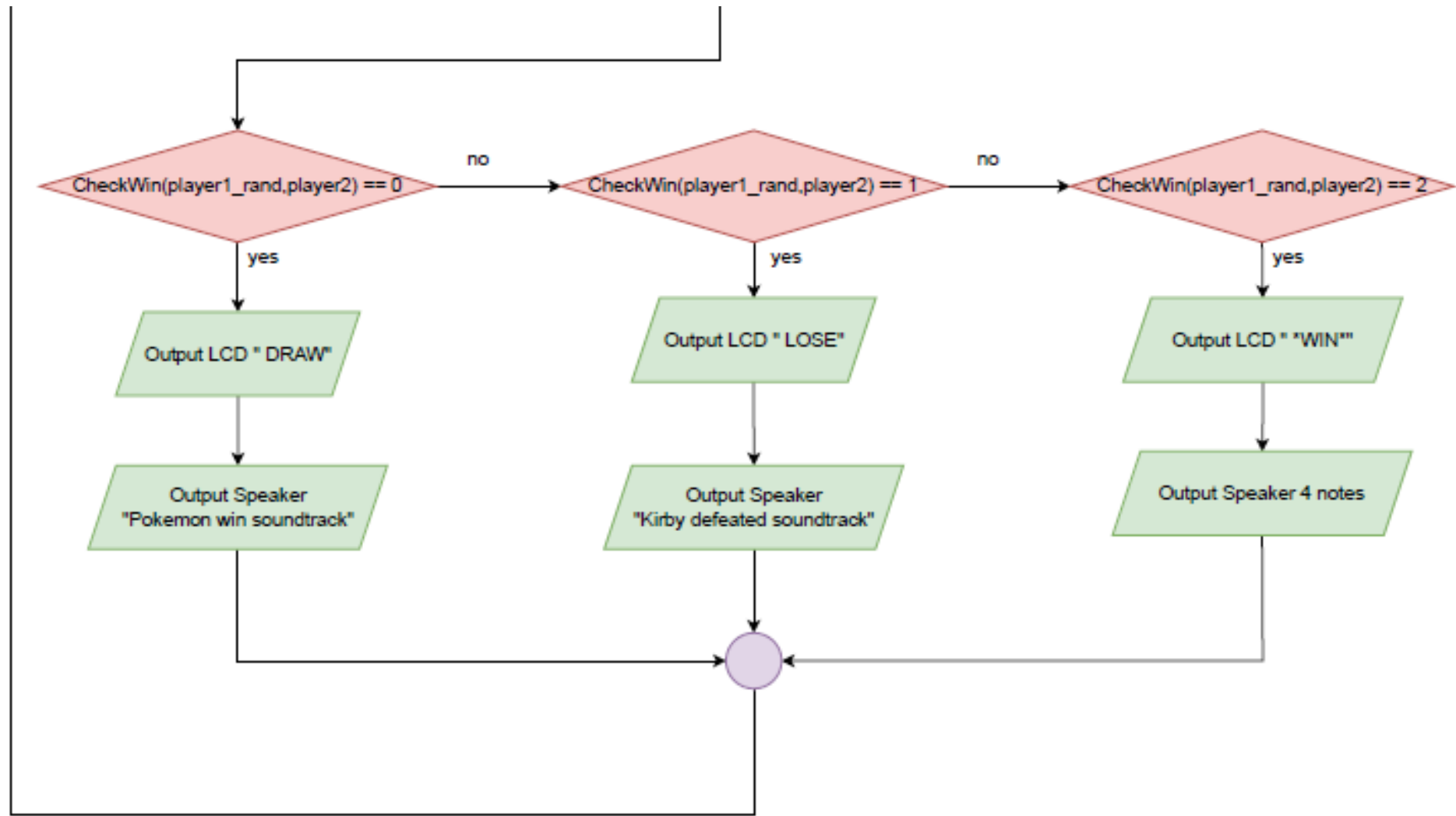
Coding flowchart



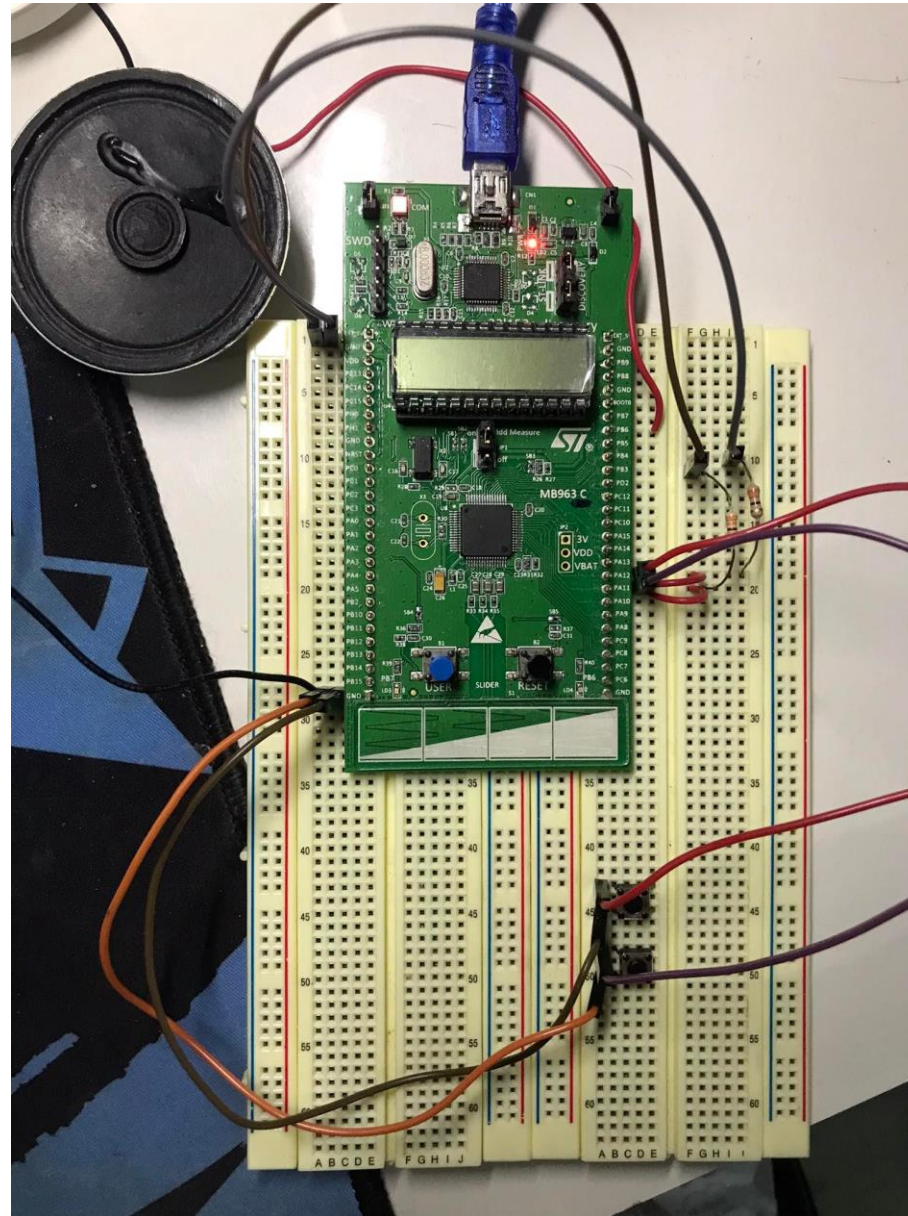
Coding flowchart

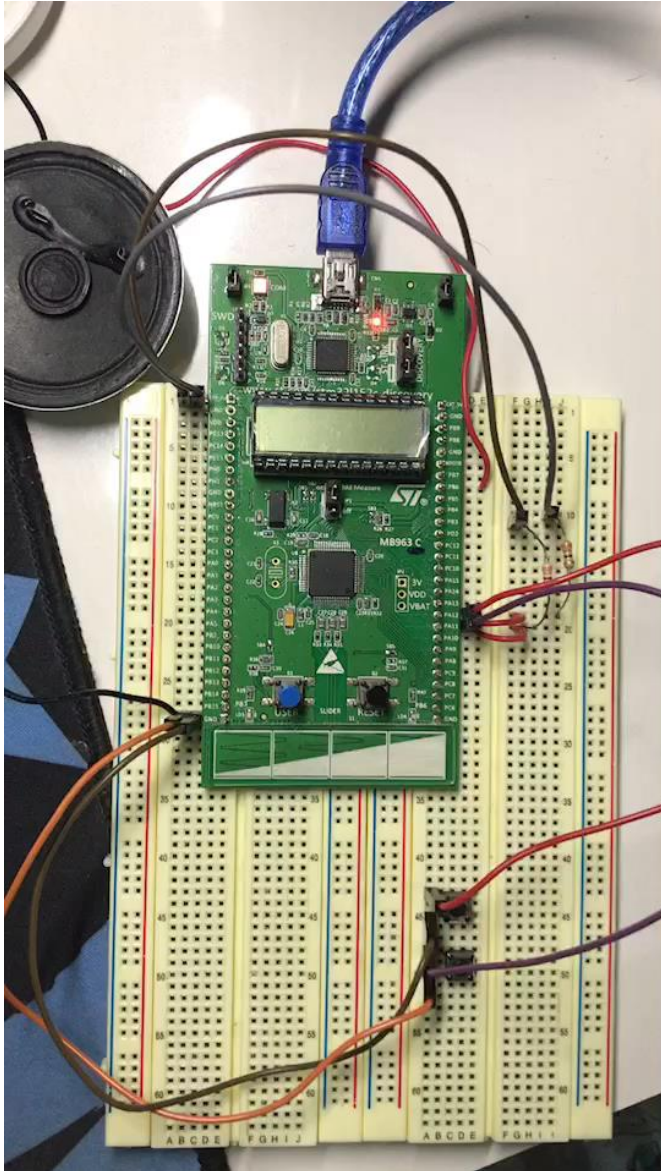


Coding flowchart



ภาพวงจร





ปุ่ม USER → Random Player 1

Player 2

กดปุ่มบน → ค้อน 🖊

กดปุ่มล่าง → กรรไกร ✂

กดสองปุ่มพร้อมกัน 2 ปุ่ม → กระดาษ 🖐

Gantt chart


Description	Responsible person	Week 1							Week 2							Week 3							Week 4						
		Jan 10 - 16							Jan 17 - 23							Jan 24 - 30							Jan 31 - Feb 6						
		M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su
Discussion about project	Everyone																												
Architectural design	Everyone																												
Start coding	Harit																												
Config coding	Wachira																												
Sheetnote	Pornwara																												
Merge code	Everyone (espicailly Nattawat)																												
Testing	Nattawat,Harit																												
Presentation	Wachira,Pornwara																												

Update project plan1: 12-Jan-22

Update project plan2: 24-Jan-22

Update project plan3: 4-Feb-22

 Plan

 Actual

 Late

Gantt chart


Description	Responsible person	Week 1 Jan 10 - 16							Week 2 Jan 17 - 23							Week 3 Jan 24 - 30							Week 4 Jan 31 - Feb 6						
		M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su
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Discussion about project	Everyone	Yellow							Yellow																					
			Green																											
Architectural design	Everyone								Yellow							Yellow														
Start coding	Harit																													
Config coding	Wachira																													
Sheetnote	Pornwara																													
Merge code	Everyone (espically Nattawat)																													
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Actual

Late

Q & A

