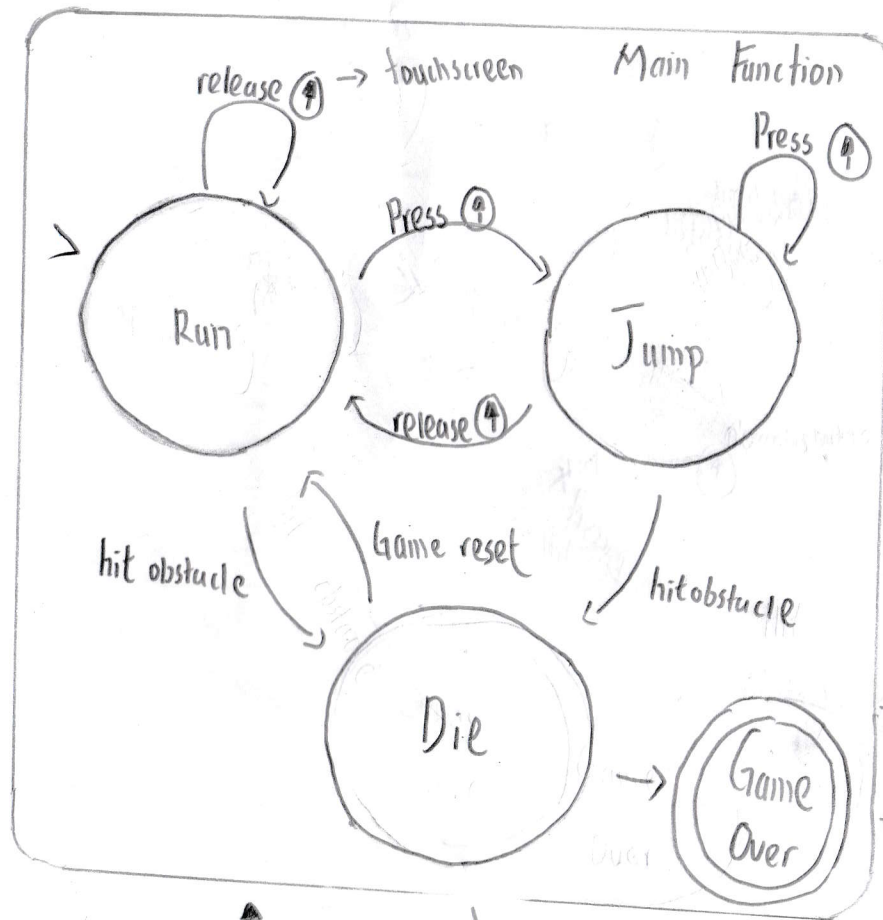
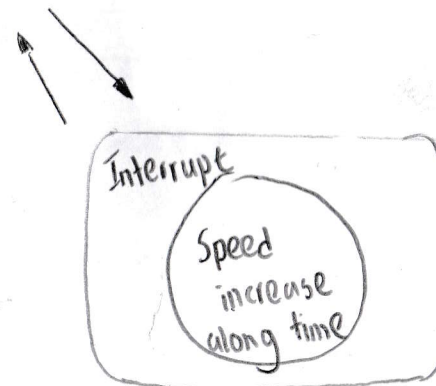
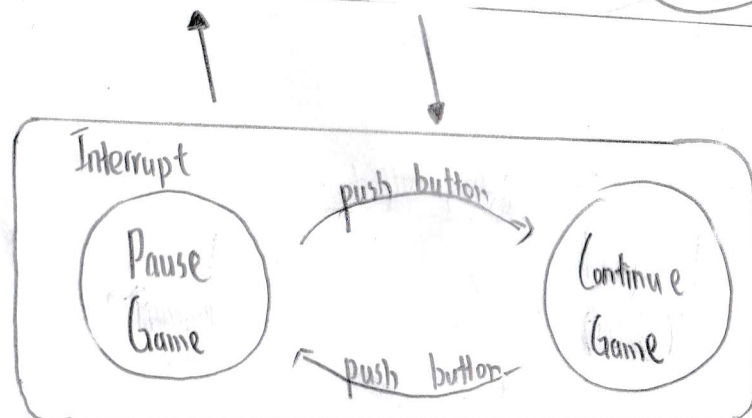


Finite state machine (FSM) diagram

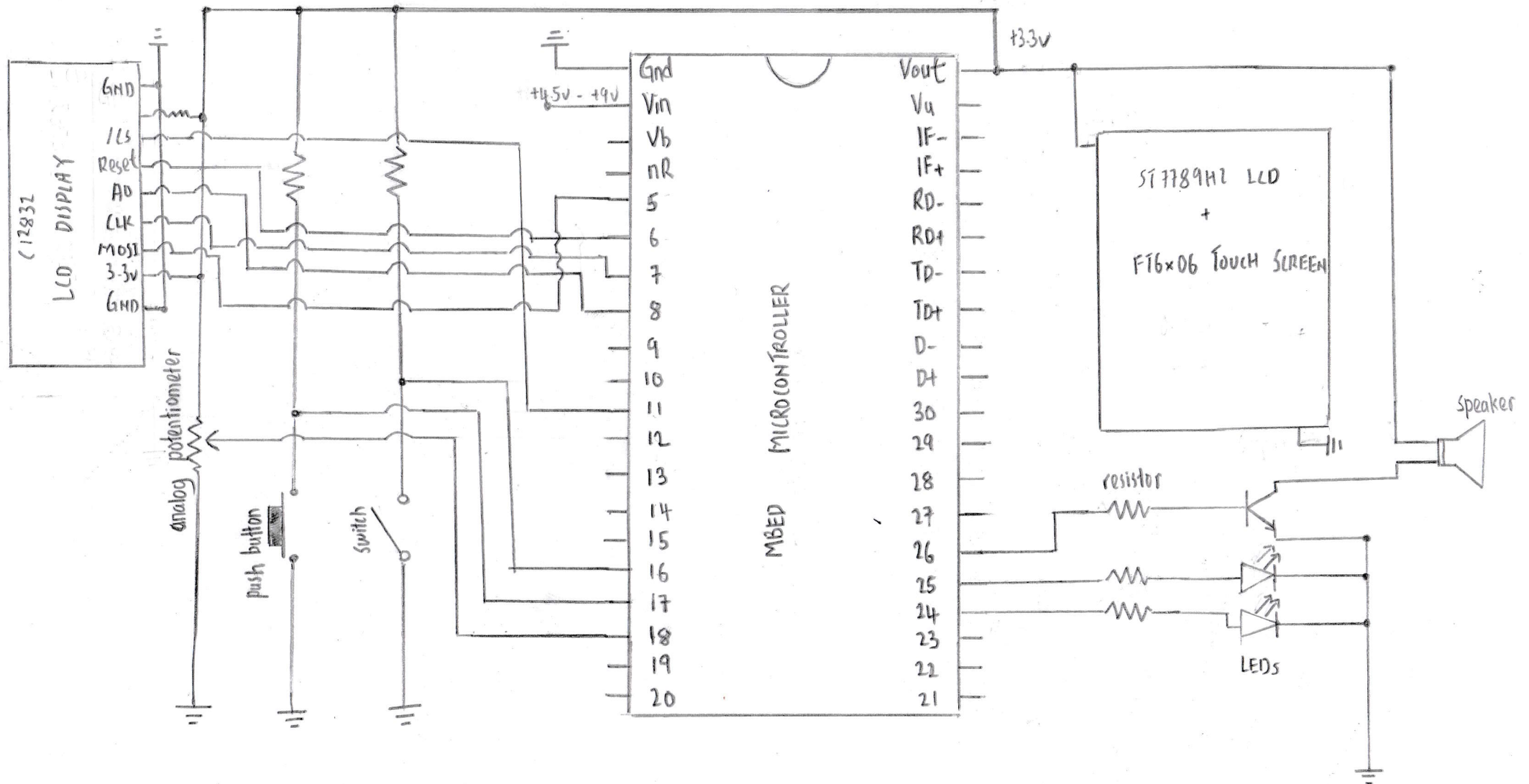


Fsm table

Input s	Initial state	Next state
Press (A)	Run	Jump
Release (A)	Jump	Run
Press (A)	Jump	Jump
Release (A)	Run	Run
hit obstacle	Run	Die
hit obstacle	Jump	Die
push button	Continue	Pause
push button	Pause	Continue
game reset	Die	Run



Schematic diagram



Algorithm (Pseudocode)

Input

switch, touchscreen, push button, potentiometer

Start Game

switch on

load graphics on to display(touchscreen)

Initialize Variables

create speed limit, player position, obstacles position, score, game start

Function Speed Limit

speed limit set by voltage output of the potentiometer

increase of speed along time (every 5 min) until speed limit reached

End Function

Function Obstacles Position

obstacles keep moving toward player (y fix but x keep changing)

End Function

Main Loop

set score to zero

set speed limit to zero

set player position

set game start to one

While game start is equal to one

If up key on touchscreen is pressed then

player will jump (change player's y axis)

End If

If player position not equal to obstacles position

call: obstacles position

call: speed limit

accumulation of score

Else If player position equal to obstacles position

kill player

reset variables

restart game

End If

End While

End Main Loop