

Piano Tiles game player

Introduction

Synopsis of the project: The following project presents an electronic device that can play the Piano Tiles Game. The game has tiles falling from the top of the screen. The player is expected to tap the tiles (black in colour) as quickly as possible without missing any. Using this electronic device, the player can make a higher score efficiently. I've chosen this project because I found it an exciting and easier way to win the game.

Overview

The colour of the tile is sensed as black or white using LDR, and touch is simulated at appropriate locations on the screen using a logic programmed into the Arduino.

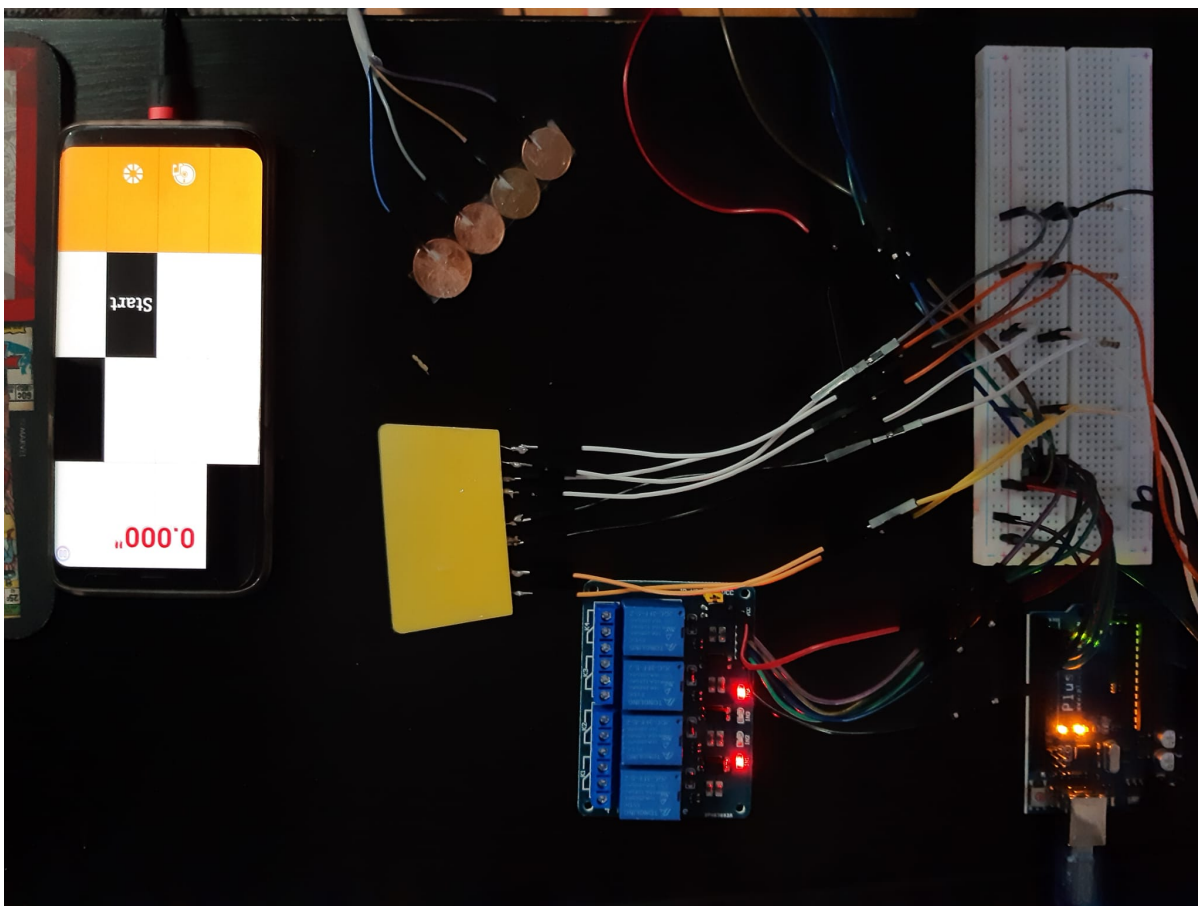
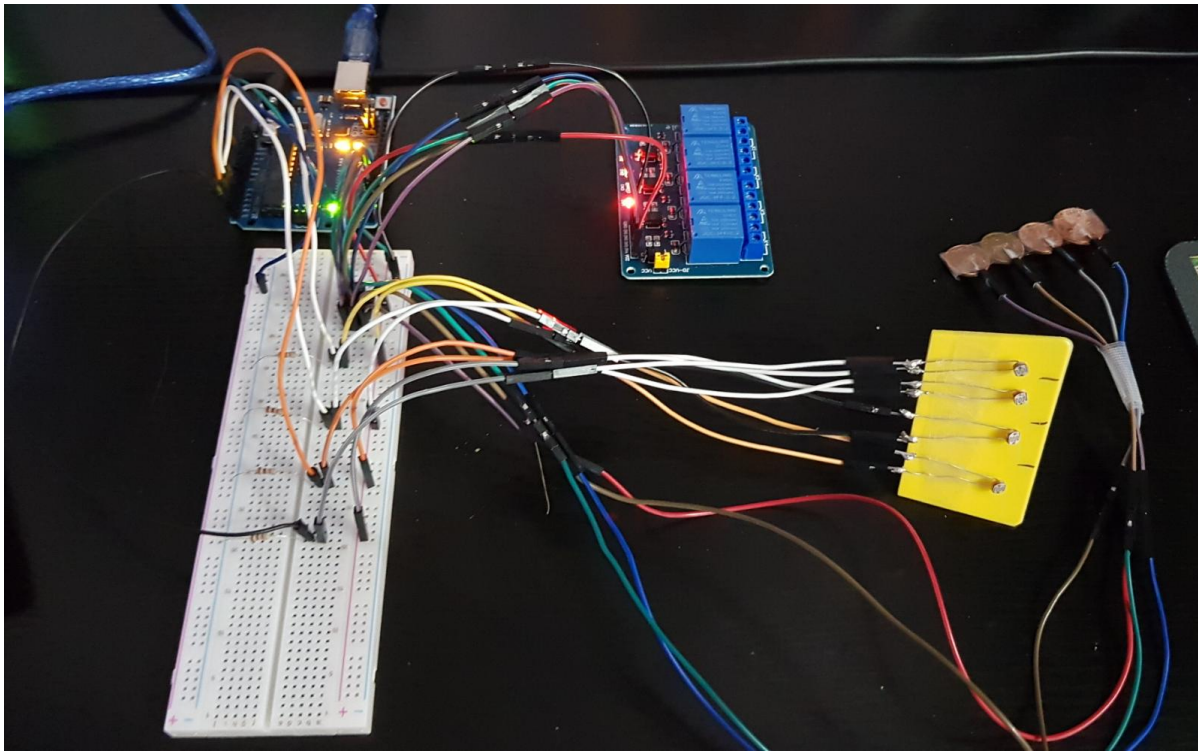


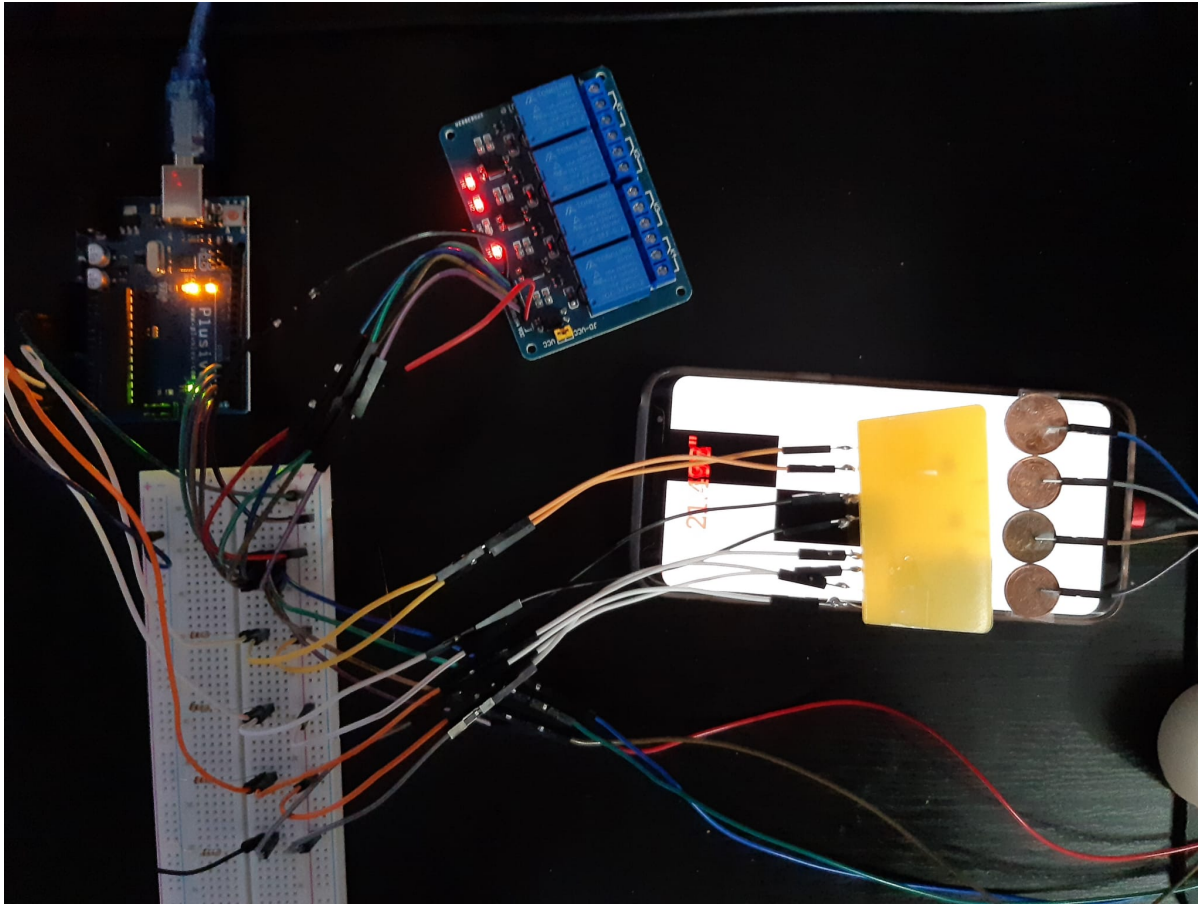
Hardware Design

Requirements:

1. An Android Device with the 'Piano Tiles' game
2. Arduino, Breadboard, 22k Resistor, LDR, Relay, Connecting wires, a conducting metal coin
3. Computer to program Arduino







Conclusion

I have managed to complete all the requirements for a good project. There are still small problems regarding the LDR because of the phone's screen and the Relay's ability to conduct. I have learned how to use Arduino software to connect LDRs wires and coins accordingly so that the current will go through the coins correctly.

Download

Arduino Code: <https://github.com/Shibalnu66/PianoTiles-Game>

Journal

- 5.05.2022: Decided on the project + started the documentation
- 12.05.2022: Gathering all the components
- 15.05.2022: Assembling everything
- 20.05.2022: Completing the Arduino Code
- 24.05.2022: Concluding the documentation

Bibliography

[USART](#)

[LDR Arduino](#)

[Relay Arduino](#)

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