Rules of 2048

PuTTY COM4 - PuTTY

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- Played on a 4x4 grid of tiles, each with their own value
- The player can slide the tiles in a cardinal direction
- A new tile will appear after each move (a 2 or a 4)
- If two tiles with the same value collide, they merge
- The primary objective is to reach the 2048 tile
- The game ends when there are no valid moves left

COM4 - PuTTY

Total Score: 4 Added Score: 4

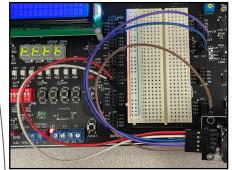
Display score and high score

Toggle light and dark modes

Included Features

- Toggleable sound effects that play after scoring or losing
- Joystick controls to move tiles + the z-axis for other input
- 7-Segment and LCD displays for the score and high score
- Automatically updated light and dark modes
- Game Over indicator with flashing LEDs
- PuTTY terminal display

2048 in PuTTY



- → GND
- \rightarrow +5V (ADC)
 - (AD1 CHANNEL 3)
- → A11 (AD0 CHANNEL 3)
- → PE1 (Int. #25. PTH 0x08)

Slide tiles with the Joystick

Toggle audio/sound effects

Code Snippets

The X and Y axes of the joystick are read from channel 3 of AD1 and AD0 respectively

The game is played with a 4x4 grid of ints int** grid = (int**) malloc (GRID LENGTH * sizeof (int*) for (i = 0; i < GRID LENGTH; i++) { grid[i] = (int*)malloc(GRID LENGTH * sizeof(int))

The dark/light modes are selected based on the values of the light sensor (or potentiometer for a manual override)



