Mack Tang February 28th, 2018 Programming Projects Project (Homework 3)

Link to Version Control: https://github.com/macktang/AtomJumper.git

Planned for Today's Assignment:

Wk #	Required Learning	Task	Due Date and Time Allotted	Deliverables for Due Date
1	pygame, python OOP	Learn Pygame, Work through Pygame tutorials		Code for pygame tutorials
2	pygame, python OOP	GUI functioning, Basic movement working	Feb 28 (HW 3) [2 weeks]	Code for basic GUI functioning

Actual Accomplished for Today's Assignment:

- 1. Used tutorial videos 1-5 of the following series (https://www.youtube.com/watch?
 v=uWvb3QzA48c), as a reference and evolved this into my own game. I also researched about pygame on the official pygame docs to know about the capabilities of the pygame functions and classes I was using. I did not follow the tutorial's code exactly, but instead used the tutorial code as a reference for making my own game.
- 2. Code for basic GUI functioning, with player movement working. Using what I learned from the pygame tutorials, I made a game that is now very close to the "Amazing Brick" mobile game:

Features of Current Code

- Physics act on player (such as falling with gravitational acceleration), uses pygames built-in vector objects to store the player's velocity.
- Functionality: spawn the player in, and also spawn 2 gates, which the player can jump past.
- Pacman style wrapping from left to right (moving too far right will teleport the player to the left of the screen, and vice versa)
- · Game scrolls vertically along with the player.
- · All code implemented in Object Oriented style

Plan for Next Deadline

Wk #	Required Learning	Task	Due Date and Time Allotted	Deliverables for Due Date
3,4		Game working		Code for final game
5		Unintelligent bot 1 moves working (moves left or right randomly)	Mar 21 (HW 4) [3 weeks]	Including unintelligent bot moving

I would not like to make any changes to the above plan, but here are some more detailed requirements:

Task: Game Working

- -Make gates infinitely spawn (instead of only spawning 2)
- -Add score on-screen
- -Add menu page
- -Add sound
- -Tune up player controls (make jump bigger, remove up arrow key "center jump")
- -Make player die if they hit gates

Task: Unintelligent bot 1 moves working

-Avoids jumping if jumping will make player sprite collide with an obstacle

Screenshots of Project

