# W09 Team Challenge: Final Project Planning

CSE210 **-** Team 4, Fall 2021 Semester

* **What program are we going to create?**

Pong Arcade Python based program. The game will consist of a ping pong game against the CPU or another person as the second player. The game will be decided by the highest score after a time limit of 3 mins.

* **Main scene**
  + **Single player**
  + **Two players**
  + **High score**
* **Game Scene**
  + **User-controlled paddle**
  + **Angle ball movement**
  + **Collision detection**
  + **Score display**
  + **Sound effect**
  + **Time display**
* **Closing scene**
  + **Winning players score**
  + **Replay button**
  + **Exit button**

* **Requires:**
* 2 paddles A and B on each side
* A ball
* Controls for player 1:
* s – go down
* w – go up
* controls for player 2:
* up arrow – go up
* down arrow – go down
* Event to move the paddle vertically
* a score update function

when ball hits a paddle – winning score

Other needed features for the game will include:

* Drawing spirit 1 and 2 (bars in form of rectangles)
* Moving the ball: from left and right, up, and down until it bounces to the wall
* Collision: when the ball hits a bar, it restarts the game and scores to the player.
* Loop function: to update the screen, find collision

**The game will end once you click the quit button, or the time has expired.**