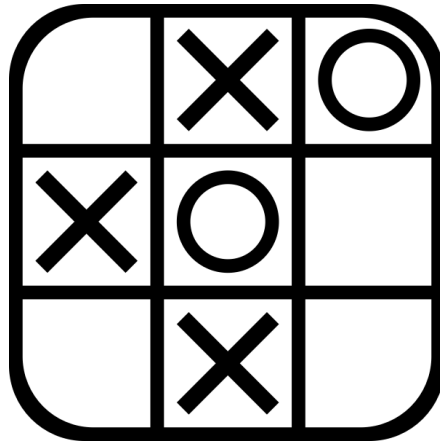


Python Game Library



For this project, each team member will choose a game to make from the list below. Your team's task is to develop each game and to connect them all to a main file. This main file, when run, should allow the user to select and play a particular game. The internet is your resource in this! Find tutorials and examples to get a better understanding of how these games are made in Python. Presentations will involve each team member showcasing their own game, but working together is heavily encouraged!

Games

1. **Rock Paper Scissors** - This is the implementation from our class exercises. You should be able to play against a computer or another player.
2. **Number Guess game** - The computer selects a random number in a range, and the player has to guess the number. The player has "n" number of guesses, and the computer will give hints about the number as the user guesses. Try and come up with your own implementation!
3. **Tic Tac Toe** - The game board should be displayed on the command line. You should be able to play against a computer or another player.
4. **Connect 4** - Play against the computer in a game of matching tiles. Warning: Challenging! Use the pygame library (<https://www.pygame.org/docs/>) for this.
5. **Another game of your choice!** - Feel free to get creative!

Functionality

The completed project should have the following:

- ☐ Three playable games from the list above
- ☐ Error handling to keep the application from crashing (Errors and Exceptions)
- ☐ A **main** file where users can access a **menu** to select the game to play (File Reading)
- ☐ The results of the games should be persisted in a log file (File Reading)
- ☐ Game logic separated into **modules** where it can be easily maintained (Modules)
- ☐ Use at least one class in each game (OOP)

Presentation

Each team will present on Friday morning. Presentations will be 10 - 15 minutes long, showcasing each game that was developed. Be sure to highlight your completion of the functionality section above, as well as any additions you found particularly helpful or interesting.