

ITCS 2530 - Final Project Statement of Work Template

Group Number:

GROUP 7

Group Leader:

Noah Yacoub

Names of Group Members:

Garrett Genord, Andreh Naisan, Noah Yacoub

Summary of what your program will do (be very specific):

Tic-tac-toe, user (X) will play against the computer (O) which will randomly select placement on board.

Board will be shown to user through a 3x3 matrix, user will be able to select row and column placement.

Randomly picks who goes first, then alternates between computer and user prompt functions. Reads from file the official tic-tac-toe rulebook. Writes to file the final output, or user can call print screen at any moment while it's their turn. Multidimensional Array to hold status of boxes whether x or o. Will compare board to struct of winning boards.

Functions (Roughly)

main (w/ quit and prompt features) controls flow of game, holds variables, calls defined functions.

- printFile : prints state of game to .txt file, happens auto at win, user can ask for print at any time
- cpuRNG : cpu will randomly pick space, check against the boards current status, and then mark the cpus turn complete
- playerTurn : prompt user for their turn allow for other options, then mark playerturn over
- listInstructions : lists offical rulebook in console output
- printBoard : print board lists the boards status in the console output
- checkForWin : runs after every move to see if the boards status matches a winning board

Decomposition with Assignments:

Use the space to list the decomposition or outline of your program. Next to each section, provide the name of the student who will be working on that portion.

What will be done	Who will do it
Functions printFile, and listInstructions, collaboration with main function, implementing with the other functions, and bug testing.	Andreh
Functions printBoard, and checkForWin, struct of arrays, collaboration with main function, implementing with the other functions, and bug testing.	Garrett
Functions playerTurn, and cpuRNG, setting up github, checking in on groups progress, collaboration with main function, implementing with the other functions, and bug testing.	Noah

