Ernst/Ziegler **CS/Math 371 Advanced Computational Problem-Solving**

**Project day 3/10- focus proposal**

Please fill out this form and give it to the instructor when you discuss your project ideas with him/her.

1. Names of both team members: Matthew Pimienta, Kaaustaaub Shankar
2. Give a short description of your project idea (and a descriptive title - if you have one)

Double-toroidal minesweeper solver

We want to implement an AI solver for minesweeper represented on the double torus represented as a regular octagon tiled by 45-67.5-67.5 triangles.

1. Have you checked whether this project or something similar exists
   1. On Wolfram Demonstration projects? No \_\_\_ Yes \_\_\_\_\_\_\_

If yes, how much time did you spend searching? \_\_\_20 minutes\_\_\_

* 1. On the internet (other than Wolfram Demonstration Projects)? No \_\_\_\_\_ Yes \_\_\_\_\_\_\_

If yes, how much time did you spend searching? \_\_15 minutes\_\_\_\_

* 1. Is this a proposal to implement an existing game? No \_\_\_\_\_ Yes \_\_\_\_\_\_\_

If yes, did you search how to approach an AI (computer player) for it? No \_\_\_ Yes \_\_\_\_\_

If yes, did you find anything promising? No \_\_\_ Yes \_\_\_\_\_

If yes, we need to know where. Did you e-mail us the reference(s)? No \_\_\_ Yes \_\_\_\_\_

* 1. Is this a proposal related to research you do? No \_\_\_\_\_ Yes \_\_\_\_\_\_\_

If yes, did you discuss it with your research supervisor? No \_\_\_ Yes \_\_\_\_\_

If no – involving and getting the support of the research supervisor is required for a research-related proposal.

If yes, specify the department and name of the research supervisor.

1. What are the computationally challenging aspects of your project (remember- this is a 7-week project for a 300-level honor’s course in ‘advanced computational problem-solving).