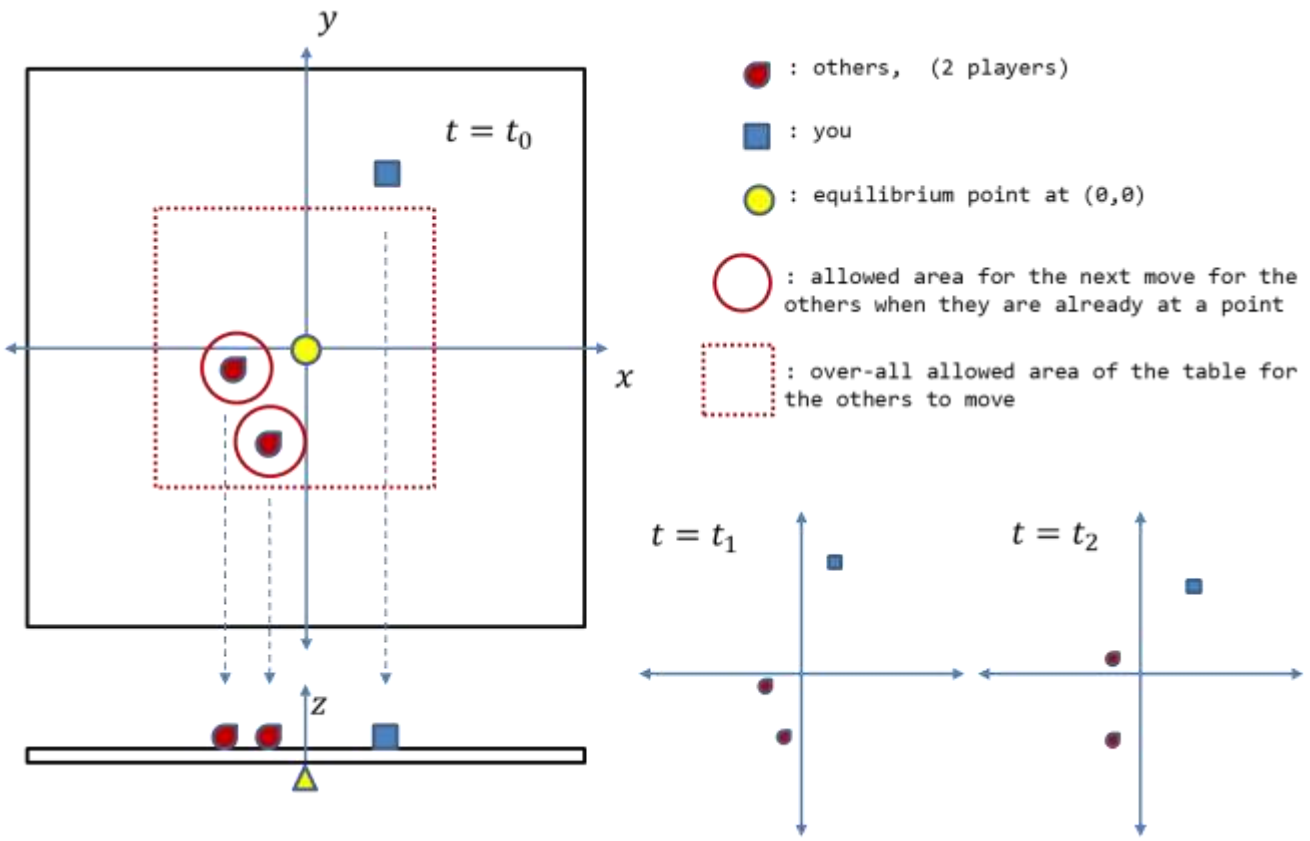
Assignment 1 **Due Date: Dec.4.2022**



1 –

On a 2D table positioned on an equilibrium point (0, 0) 'others' are having random walks within a designated area (red square) and are limited to a circular area to have the next move. And you try to bring the table to equilibrium all the time with a move only limited to the table boundary.

Simulate the required moves for 25-time instants.
List (x,y) coordinates of all players.
Compute the distances of the players from the center at each time.

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e.g : S = 64
Size of the table:        S x S
Size of Red area:         S/2 x S/2
the radius Circular area: S/16
```

*The mass for each player is the same.

- Submit your .cpp code and single-screen image(s) for your run in one zipped folder.
- A suitable name for the folder can be KOM3550_YourName_YourNumber_Assignment1.{zip/rar}. Write a relevant title for the email you are sending. KOM3550_YourName_YourNumber_Assignment1 is a good option.

"No other e-mails will be even opened".

Dr. Muharrem Mercimek

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a. The due date is firm. The files should be submitted by the end of the due date.
b. Submit your documents using the online system