

Python Assignment – NAGP 2023 Band II Batch

In this Python assignment, you have to create a Snakes and Ladders game.

The basic requirements of the game are:

- The size of the playing grid should be configurable (nxn where n is size of either dimension).
- The number of snakes and ladders and their start and end points should be configurable.
- The user should be able to save the game state any time while playing and he can even load the game state later.
- Number of players should be configurable (No. of players should be 2,3 or 4)
- For plotting visuals, Matplotlib and Seaborn must be used. At least 2 plots from each library should be used.
- Depict player moves with the help of an appropriate chart & other necessary information using visuals.
- Proper exception handling should be present & the game should be able to handle any wrong input from the user.
- OOPS Principles should be used.
- All the game moves must be recorded in a text file and shared with the code.
- Past game history should be dumped in a file and appropriate visuals can be created on the same.

Deliverables

- Source code
- Snapshots or Video recording of the game execution & plots should be shared.
- Readme file to setup the application.