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**AI LAB 2**

Comparison between Minimax and alpha-beta pruning



Alphabeta traverses different number of nodes each time

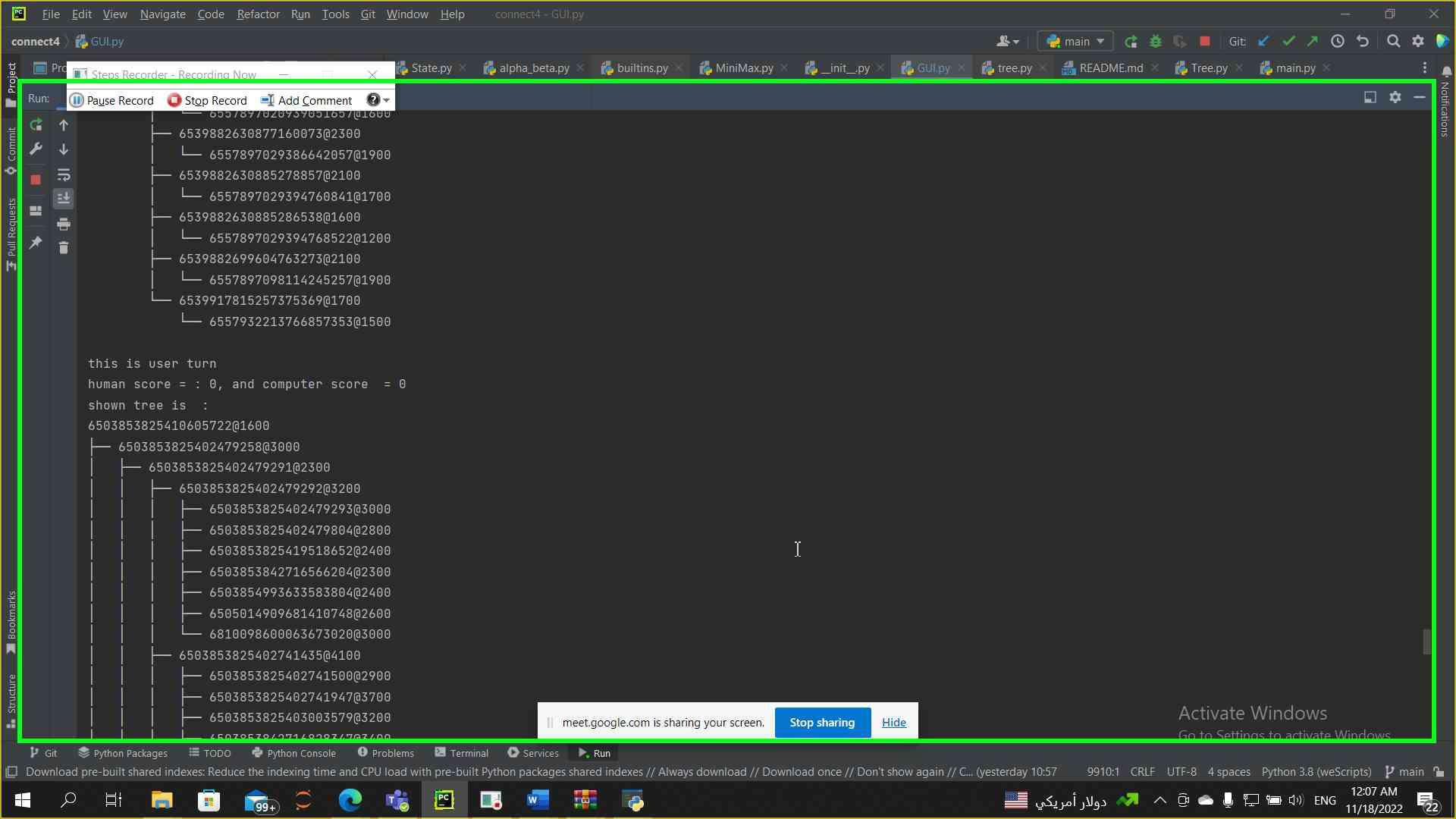
This is an initial estimate

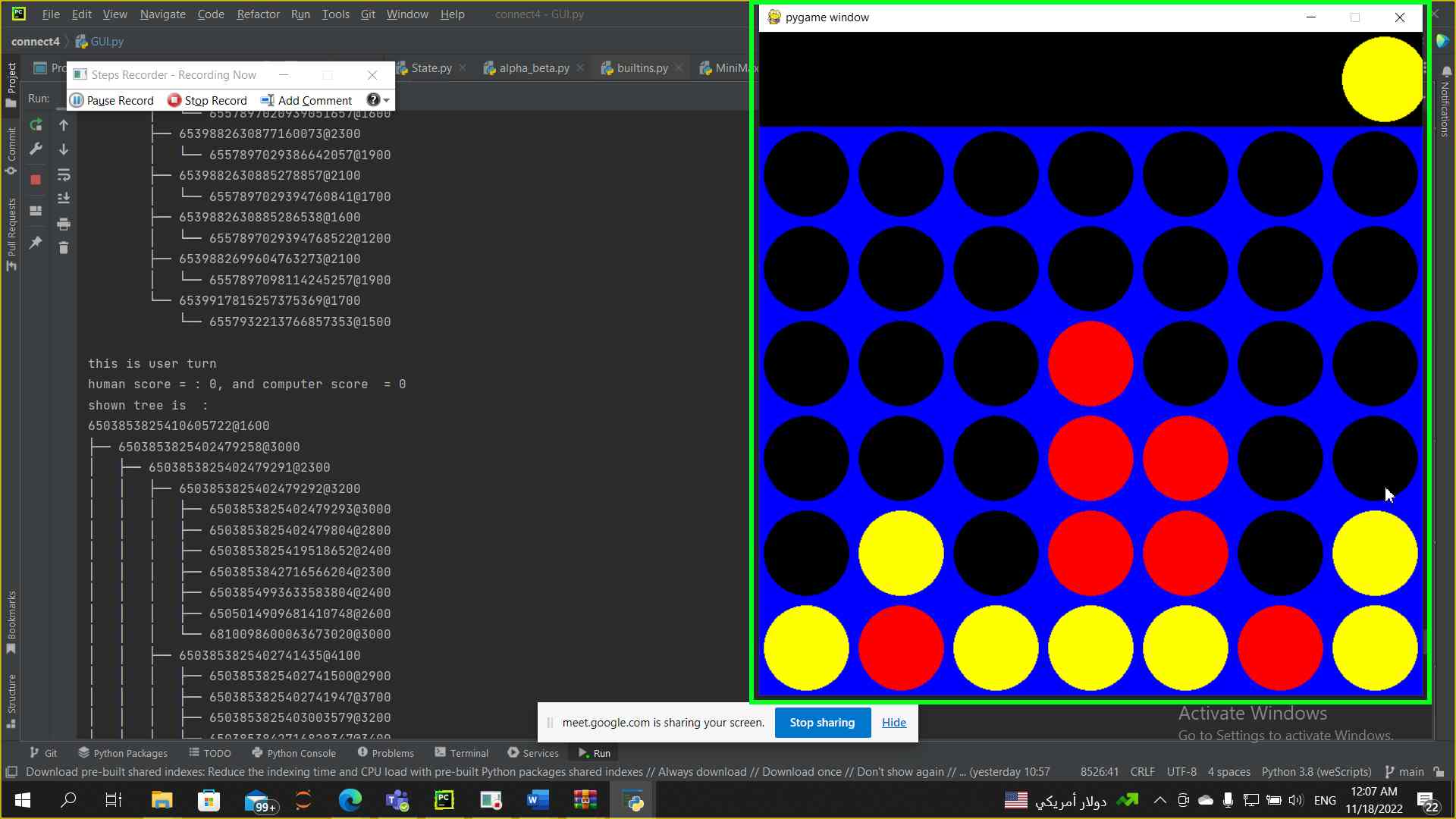
Minimax traverses all possible states for a given depth

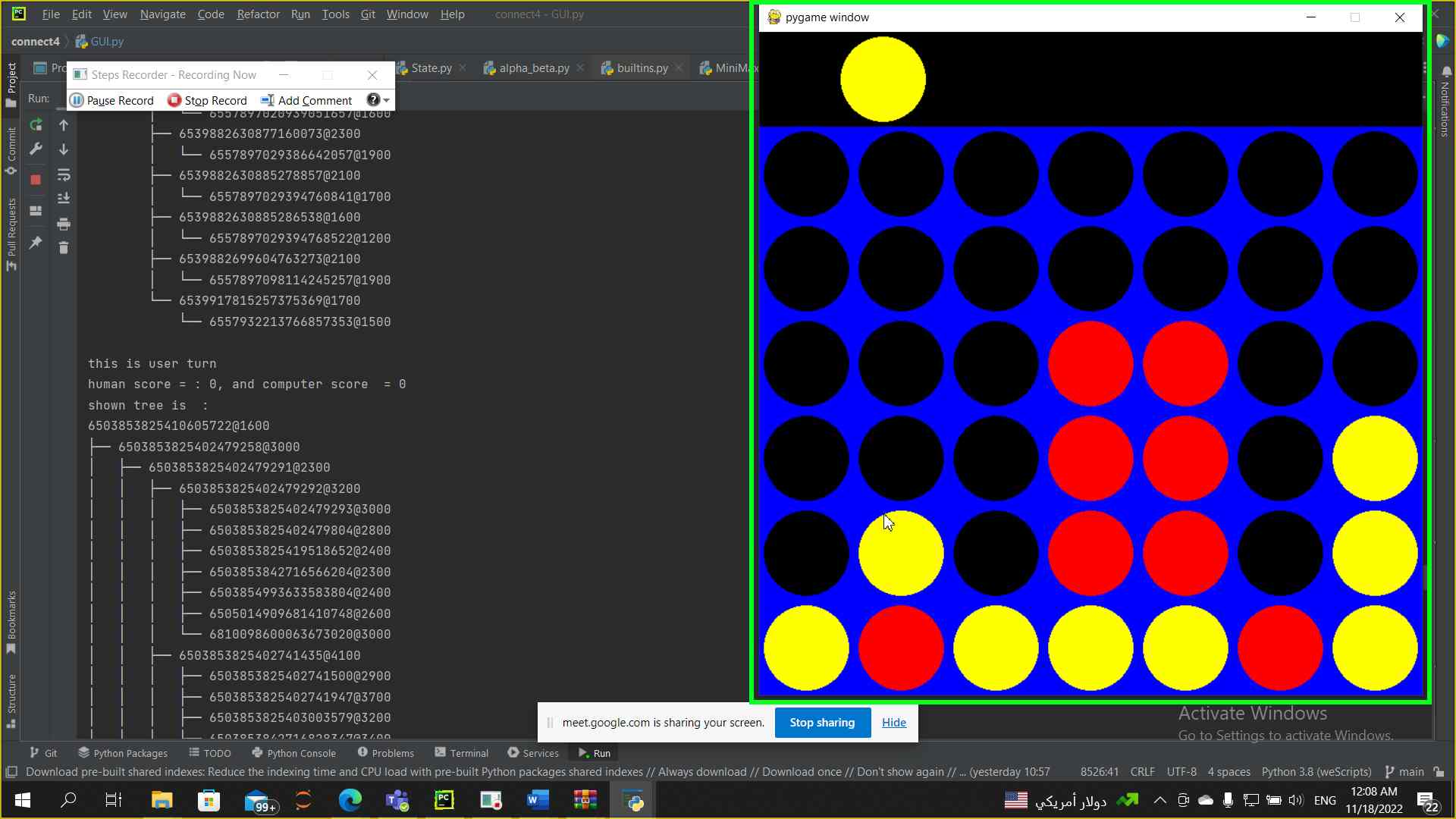
These are initial plays

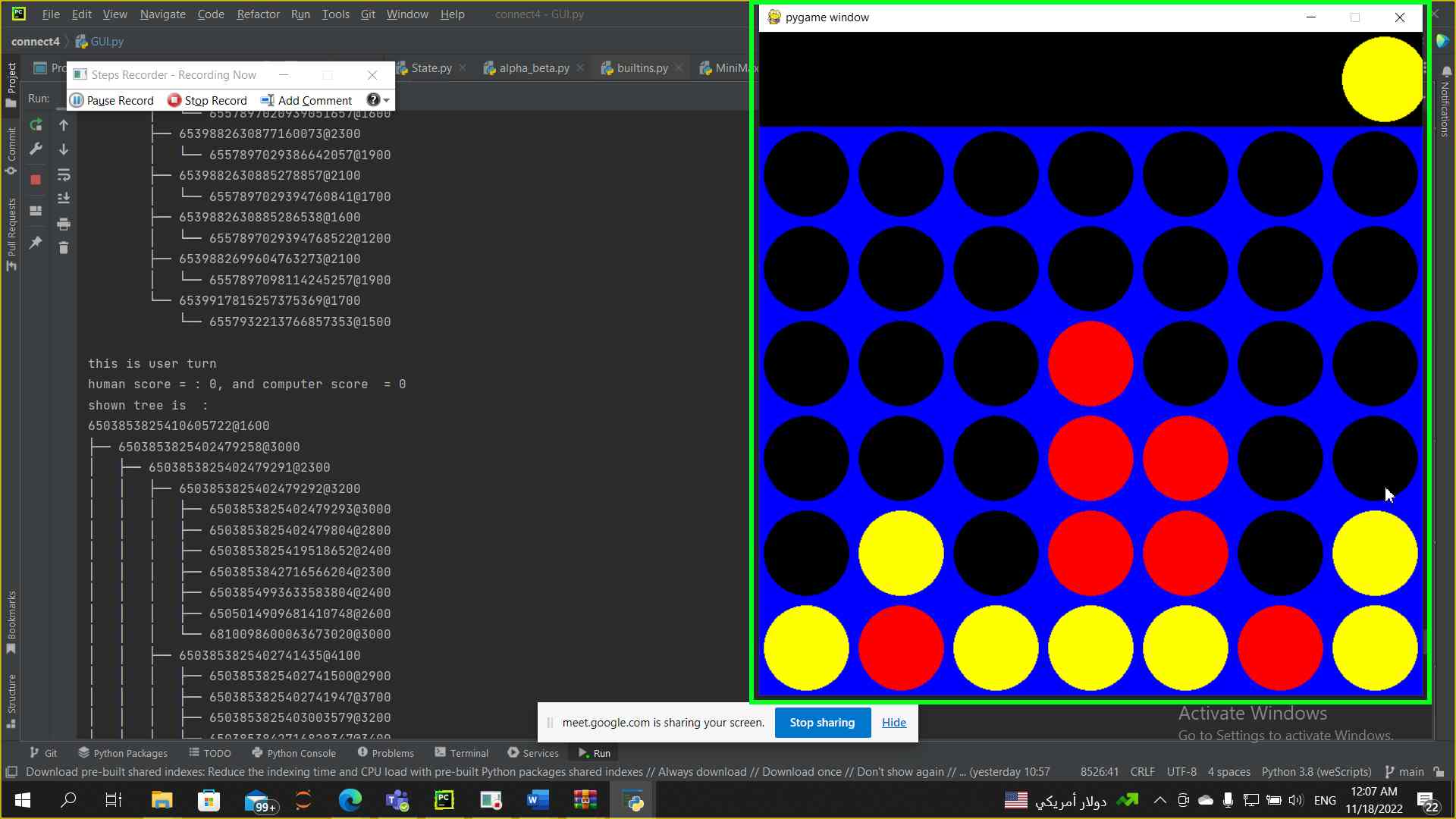
**Sample runs :-**

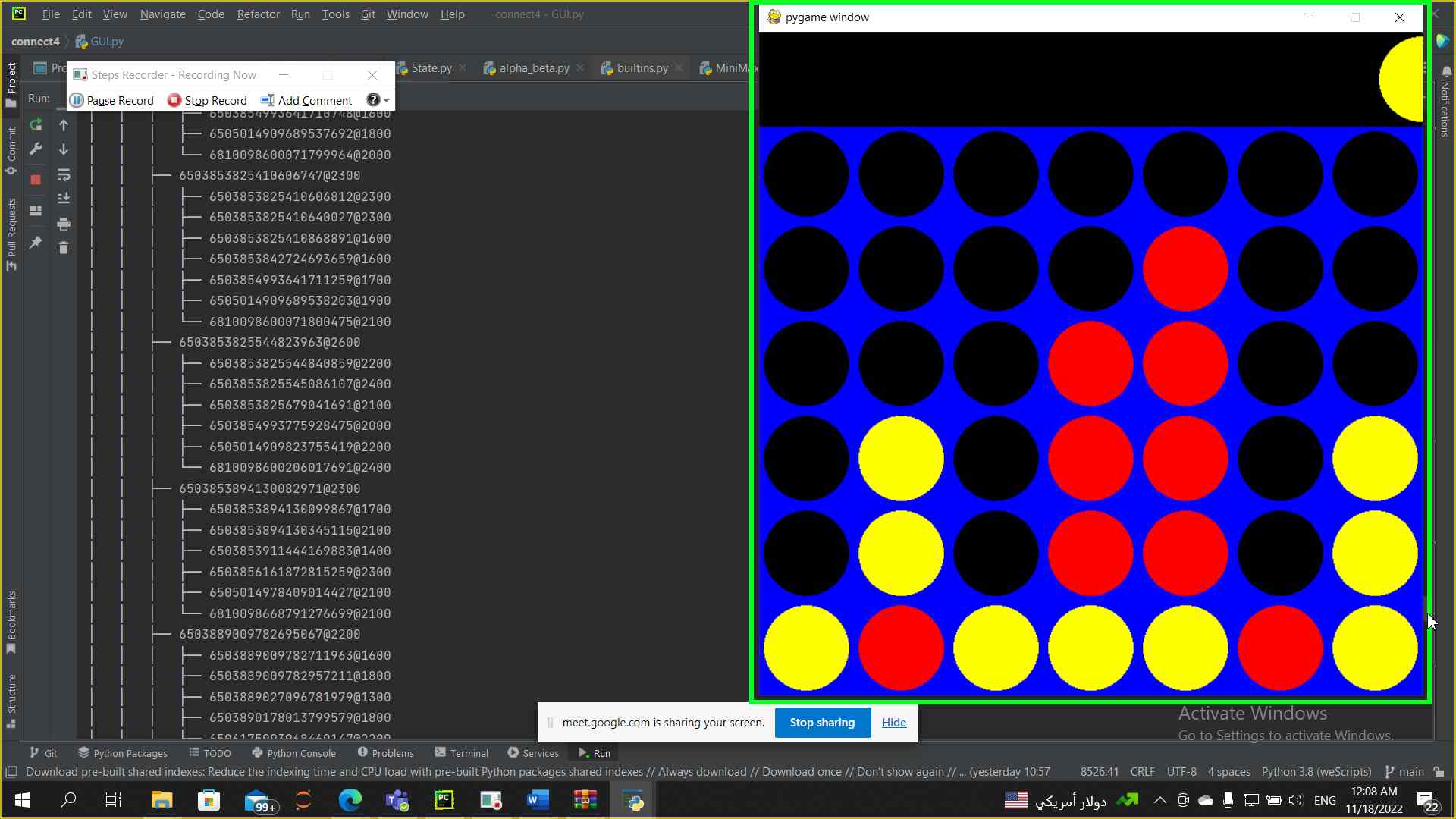
**Minimax without pruning:**

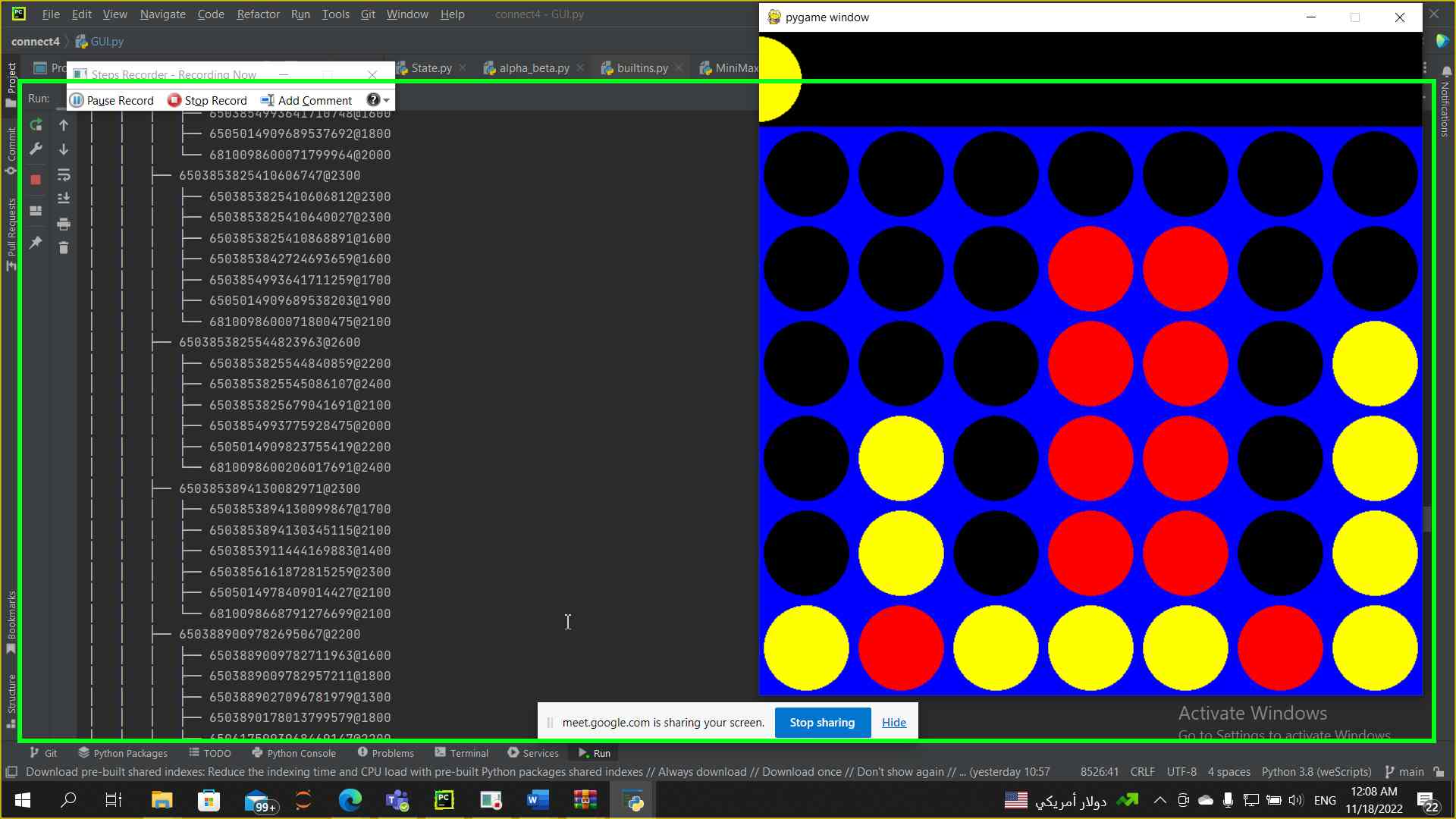




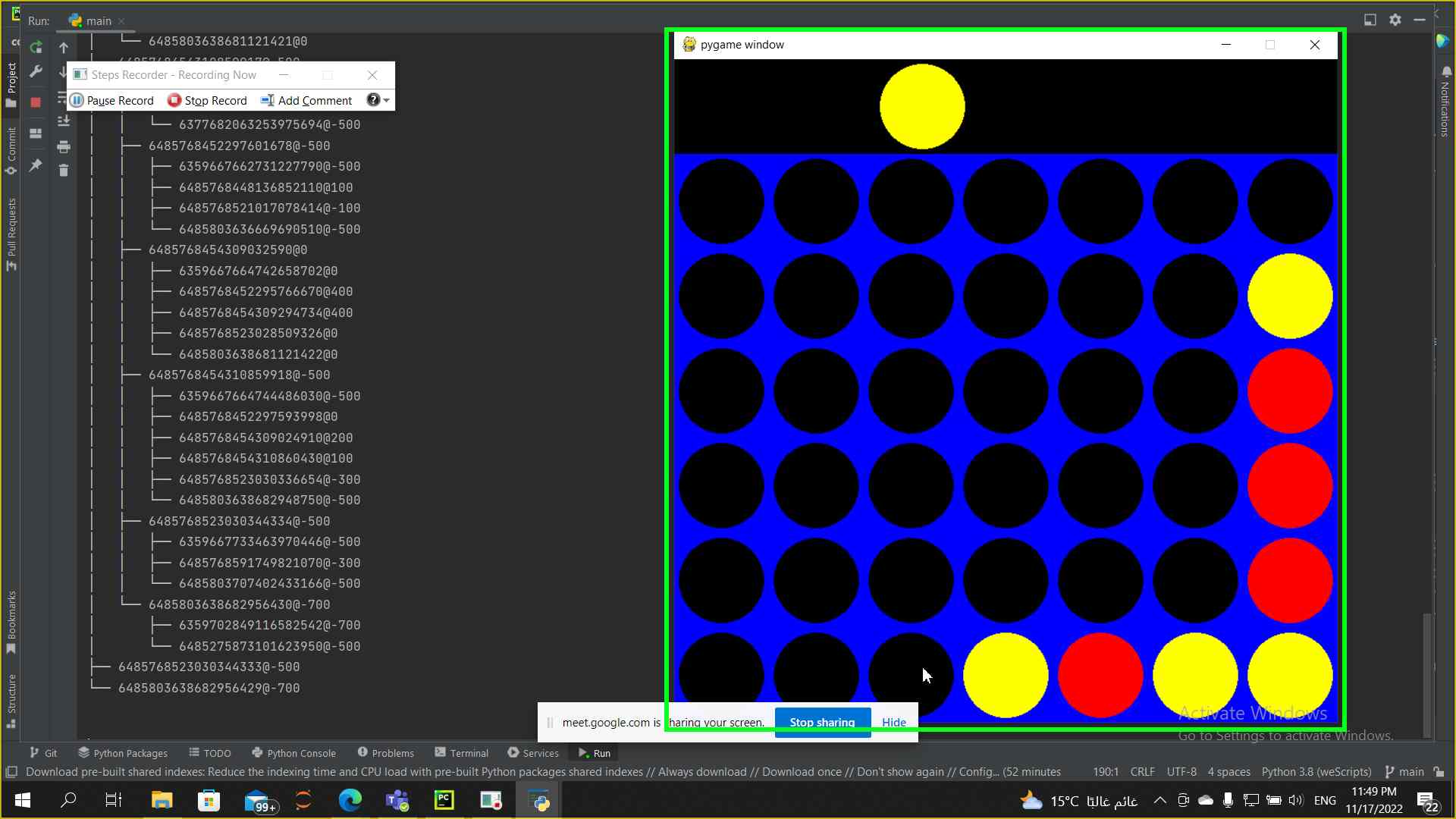


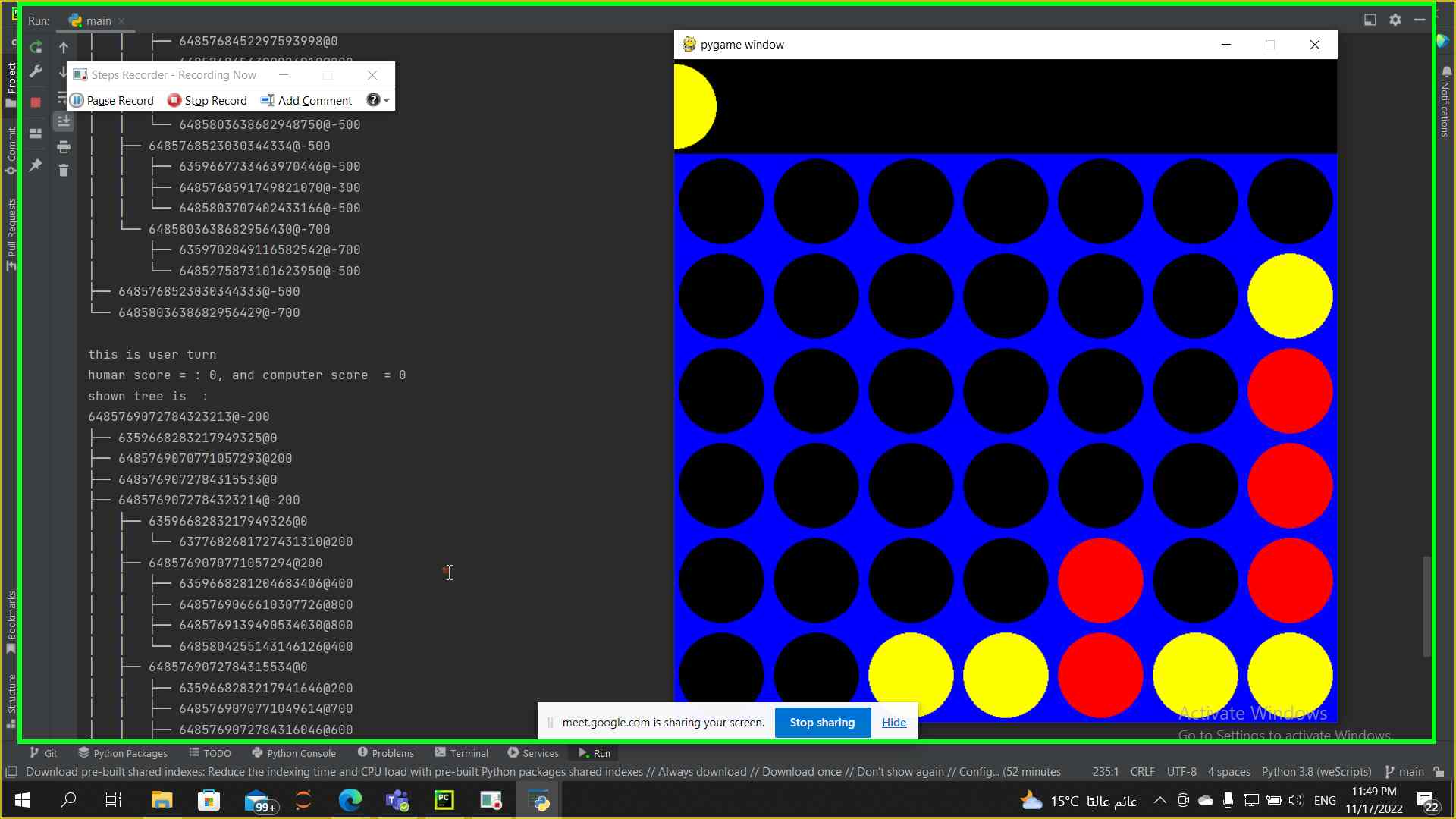


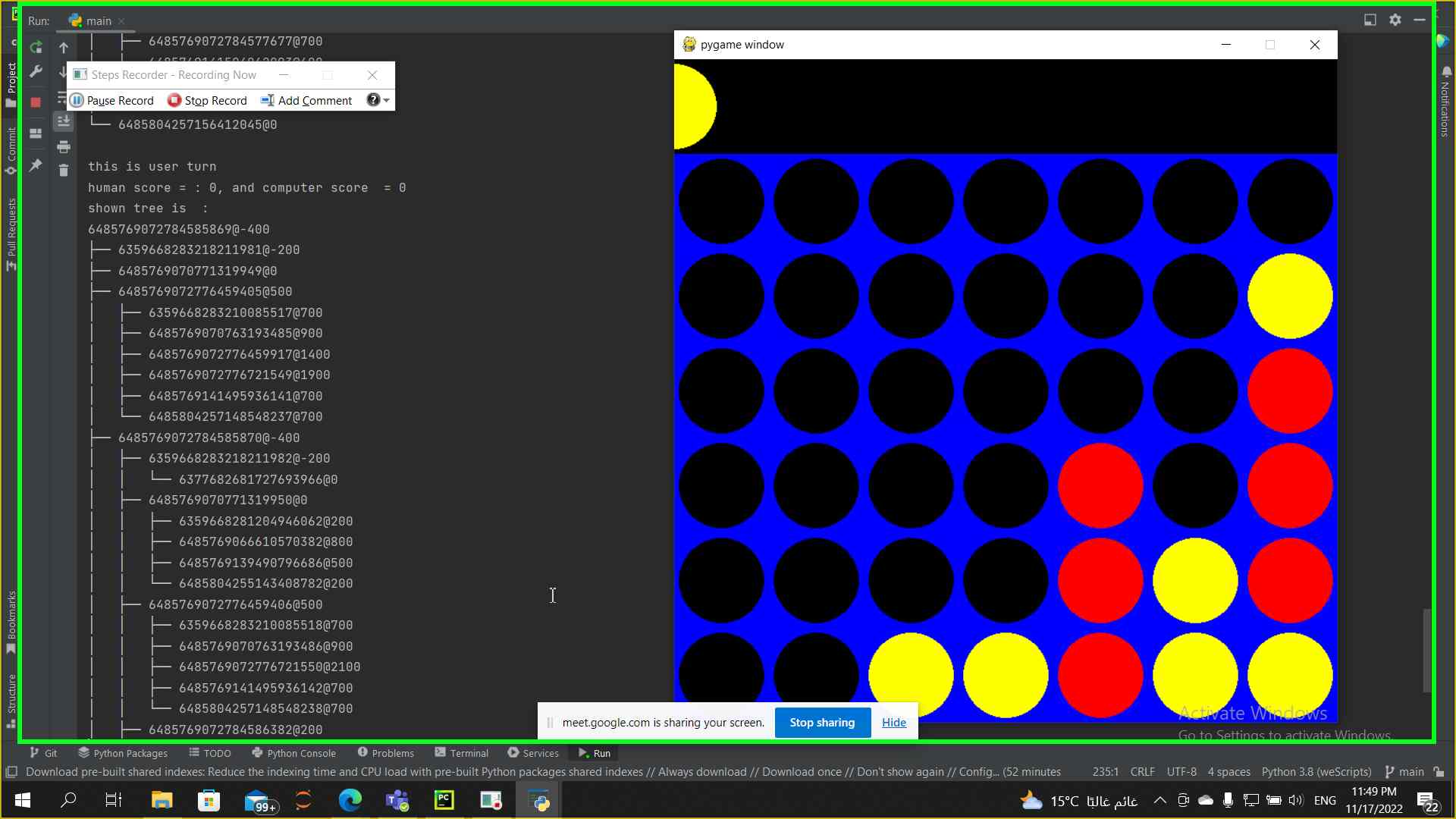


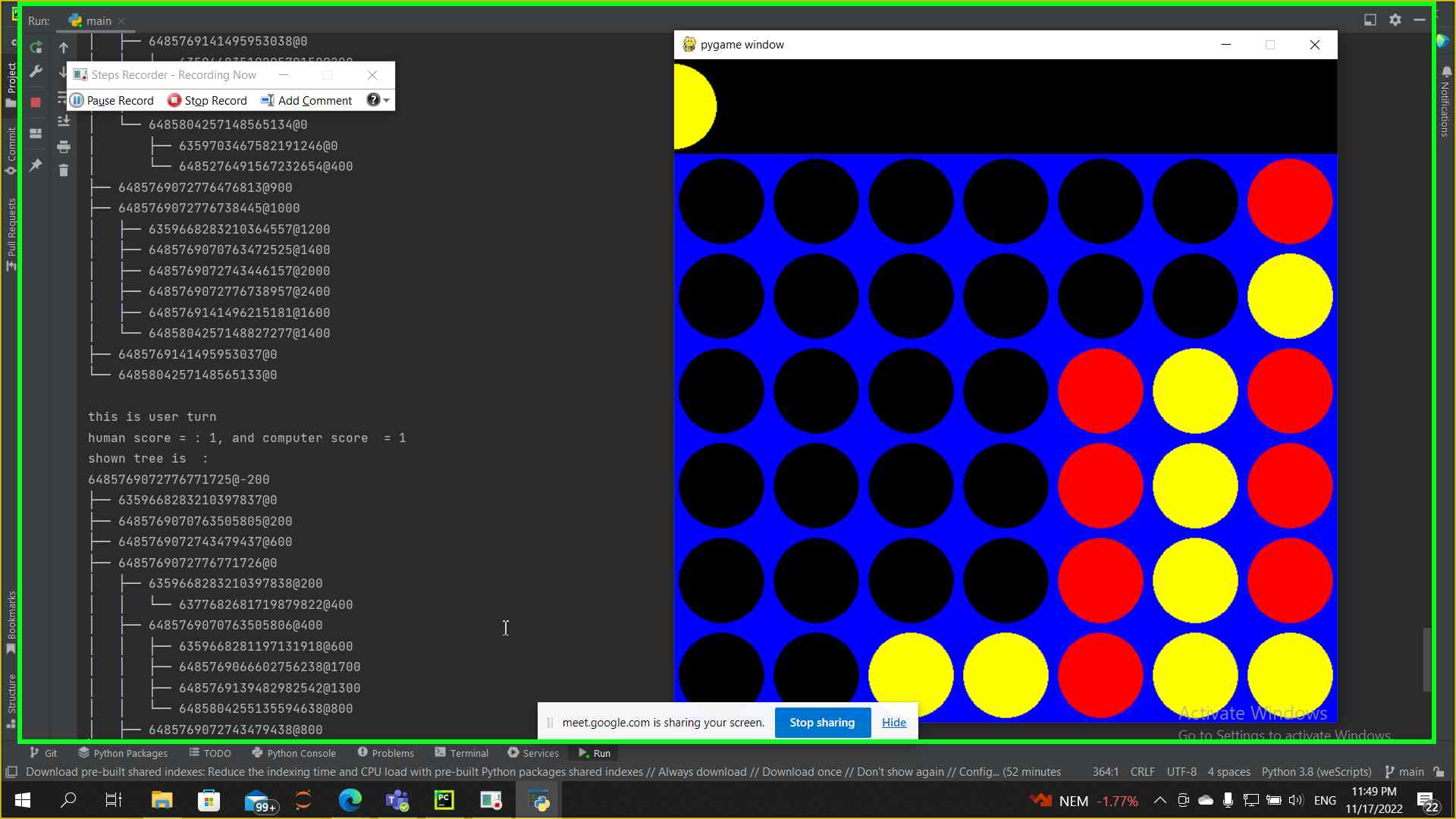


**Minimax with pruning :-**









**Data structure used :-**

* Dictionary
* List
* 2d array

**Algorithms applied :-**

* Minimax without pruning
* Minimax with pruning
* A heuristic function was used in both cases to estimate the case of the state