

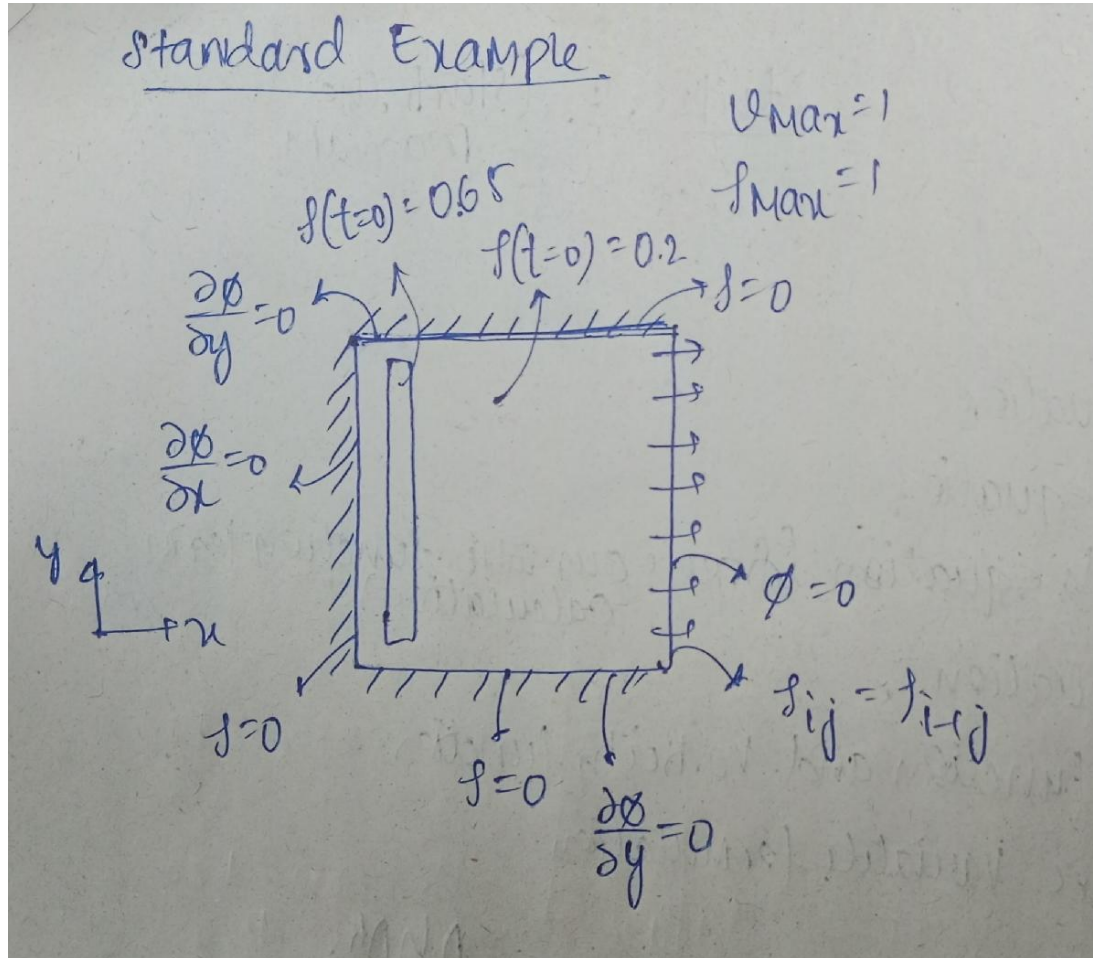
Hughe's Flow in 2D (Meeting 5)

So I have tried solvign the following problems.

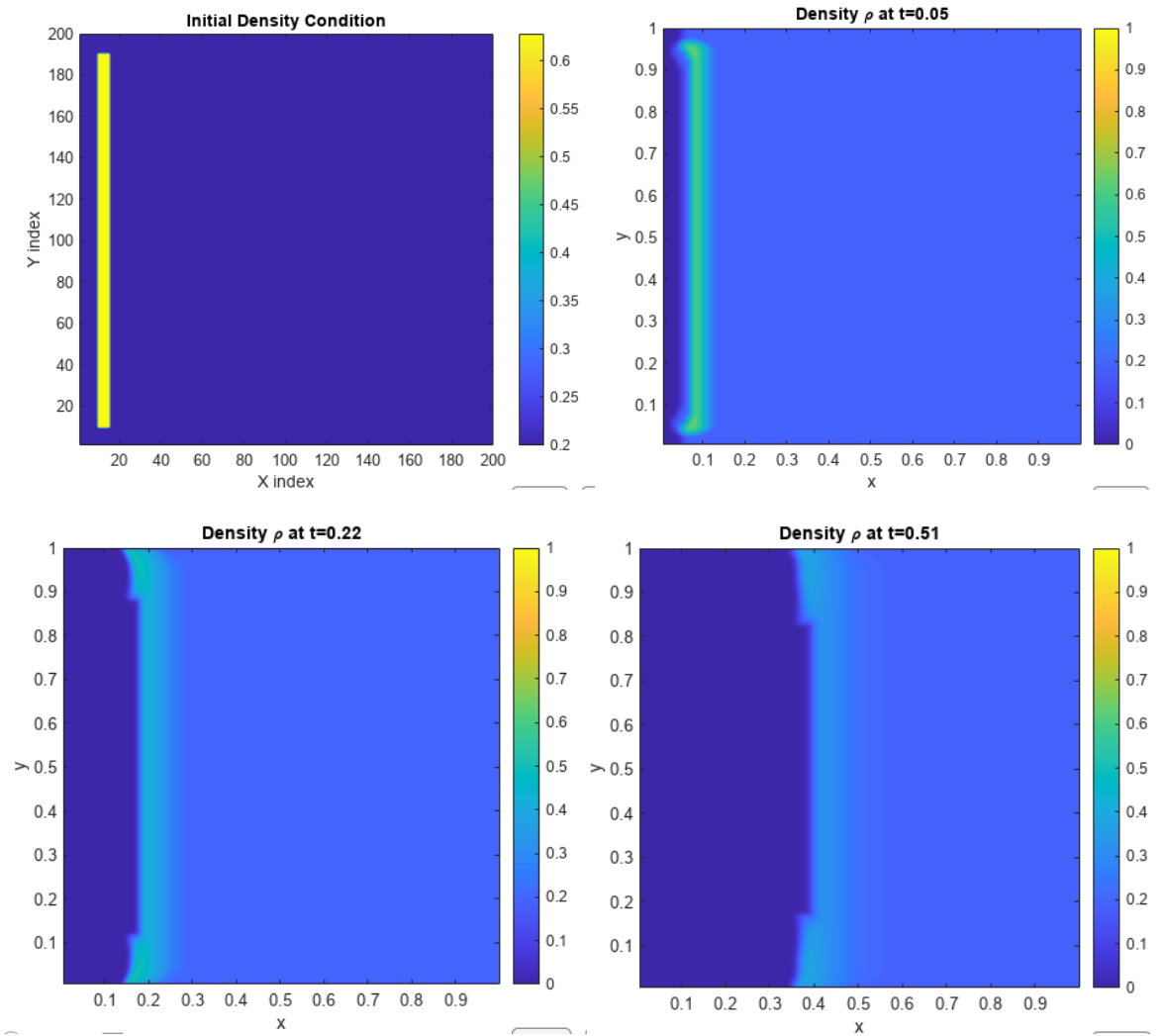
1. Problem 1 (Standard Problem)

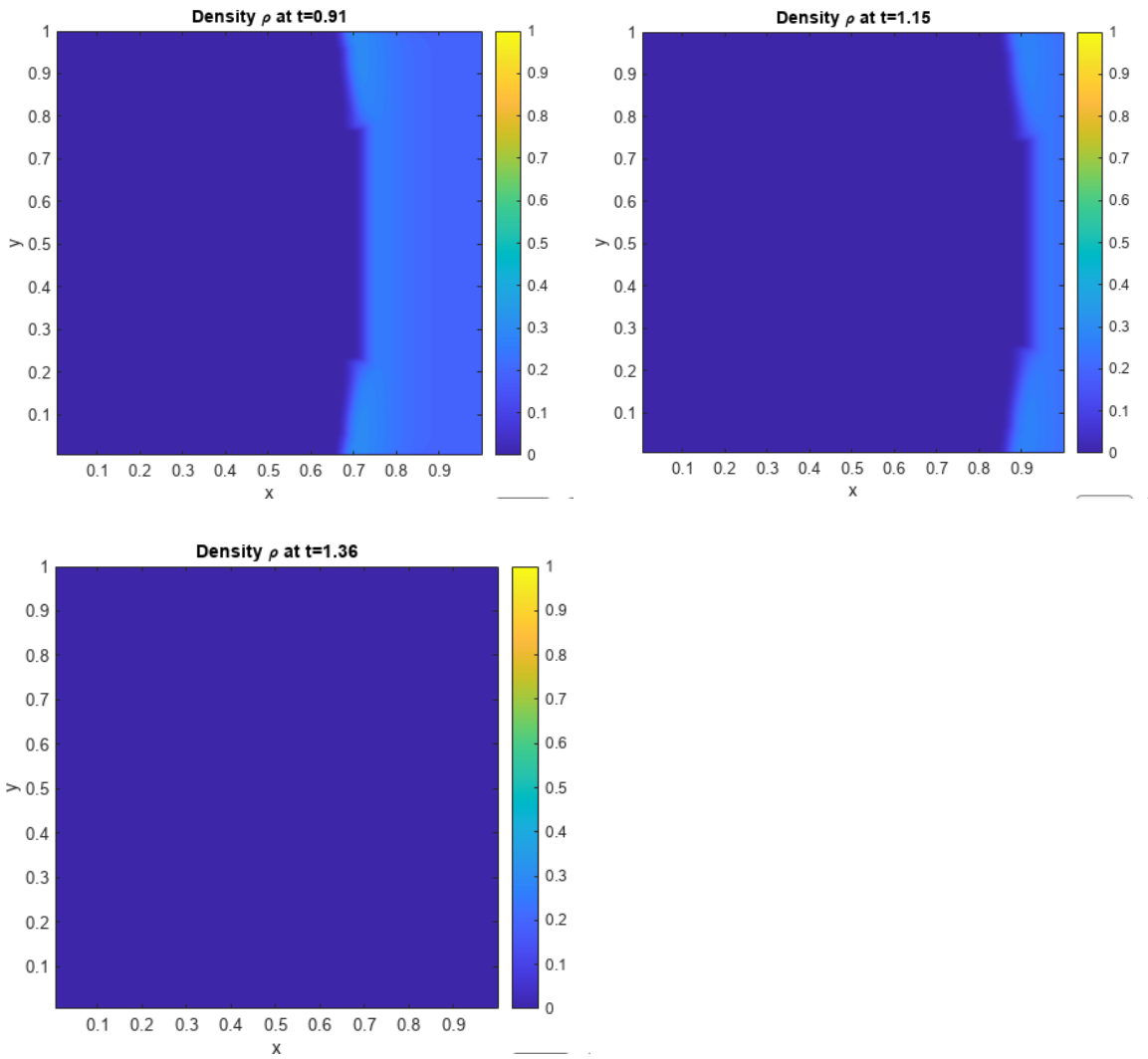
This is just a toy problem to test the 2D hughe's flow.

Domain



Result



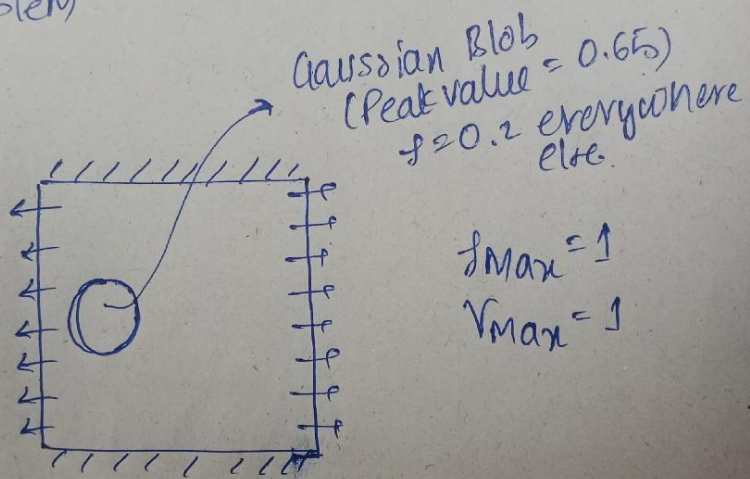


Problem 2 (Multi Exit Problem)

Here I wanted to test if the crowd will be able to pick the nearest exit which is to the left.

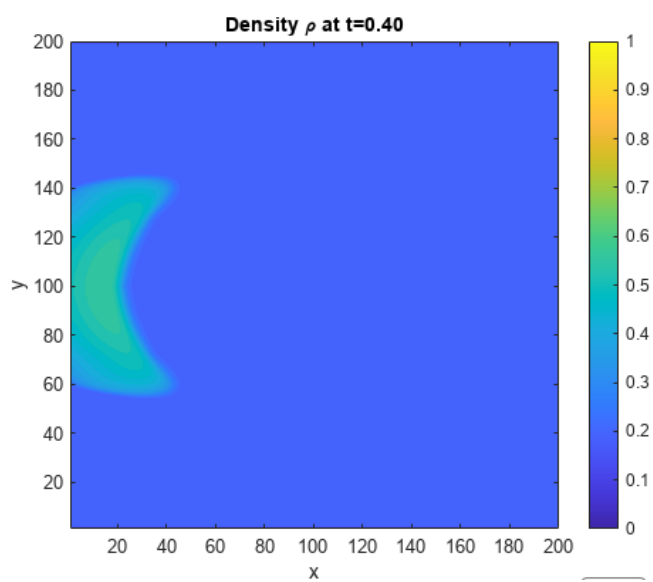
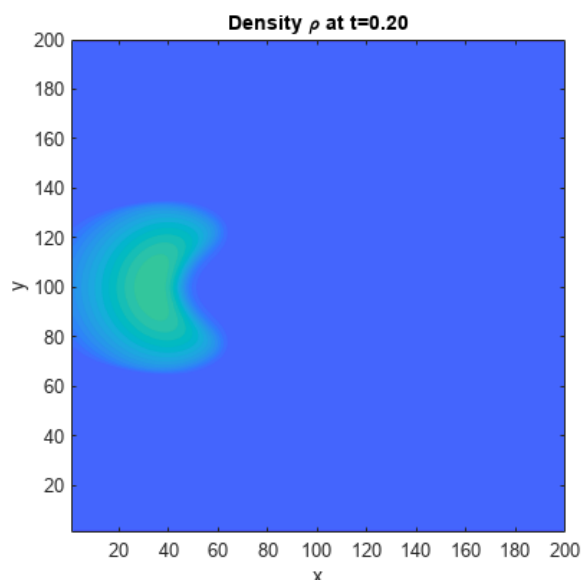
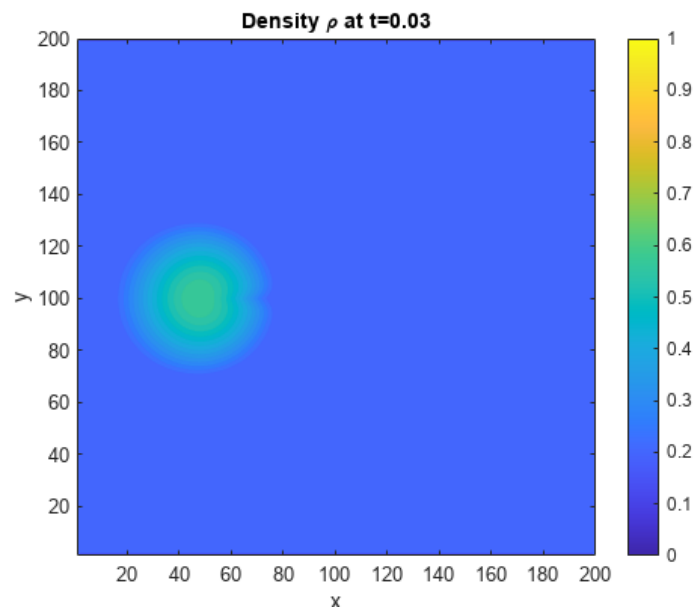
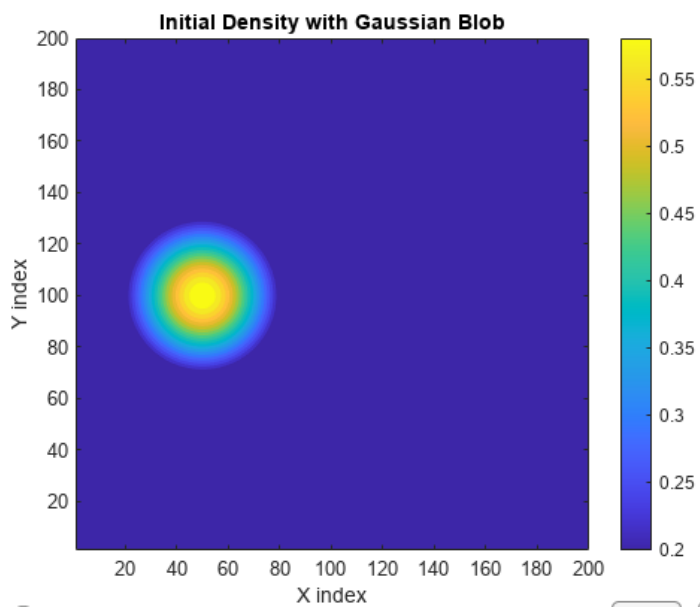
Domain

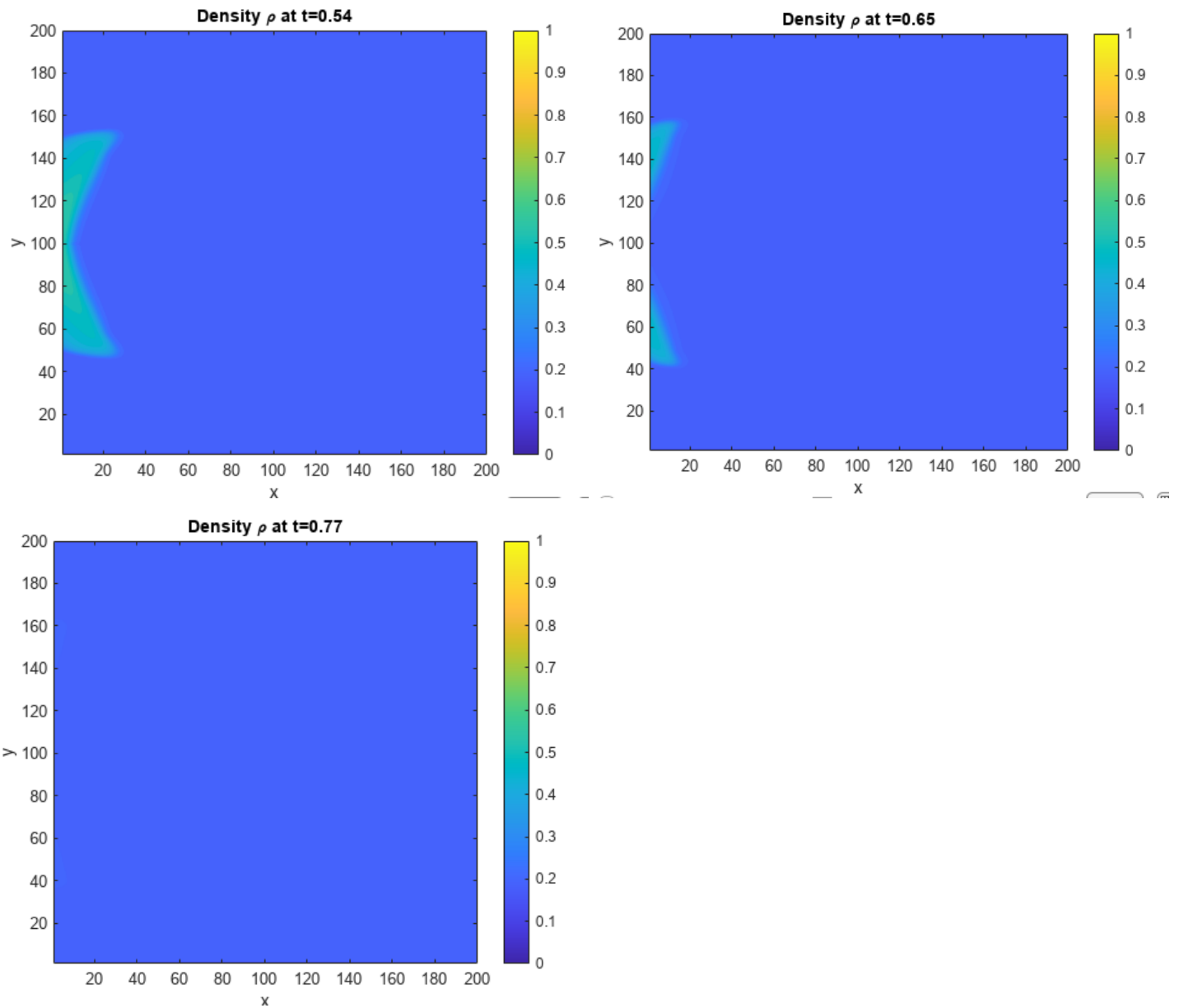
MultiExit Problem



$$f_{\text{Max}} = 1$$
$$v_{\text{Max}} = 1$$

Result



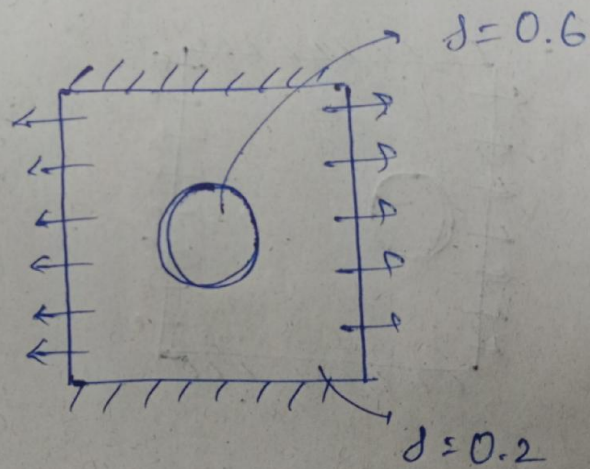


Problem 3 (Multi Exit Problem)

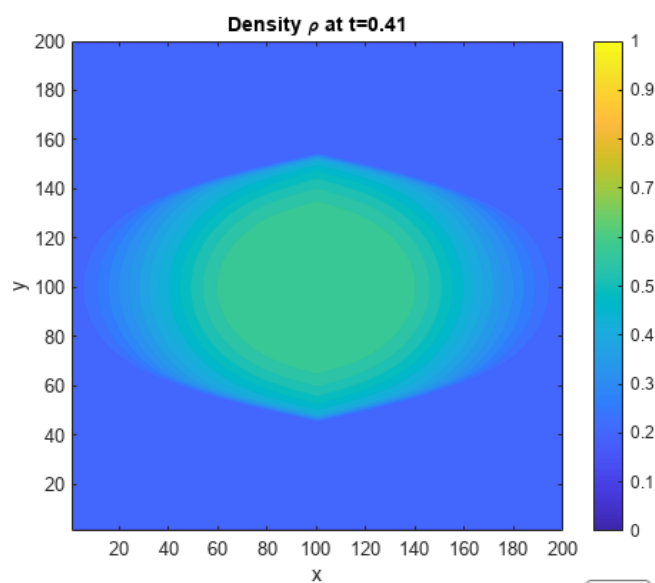
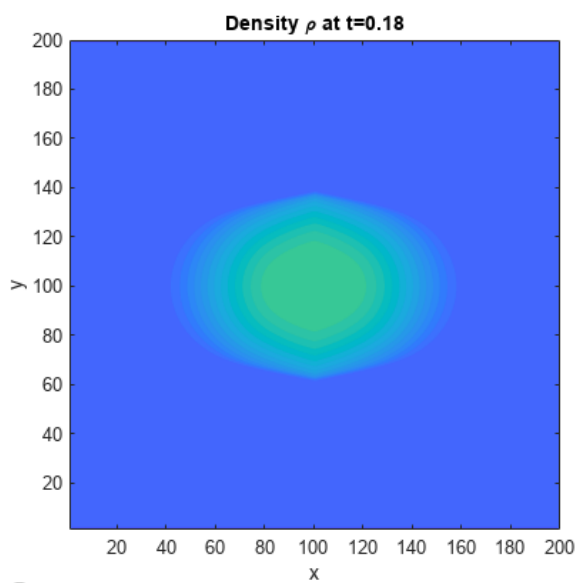
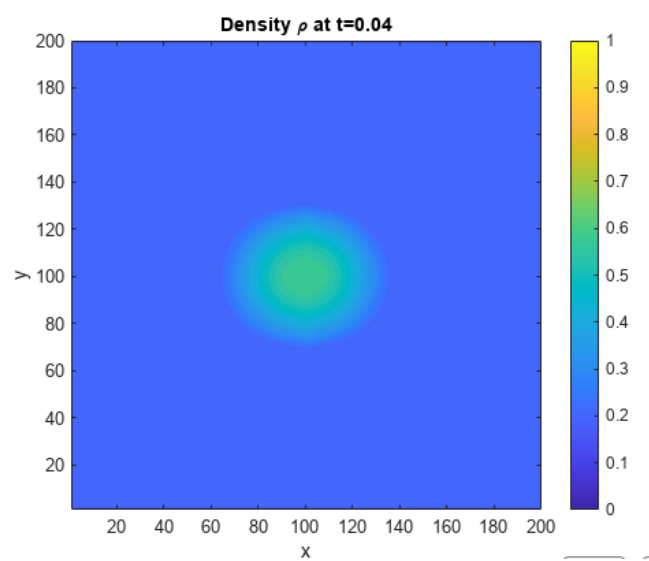
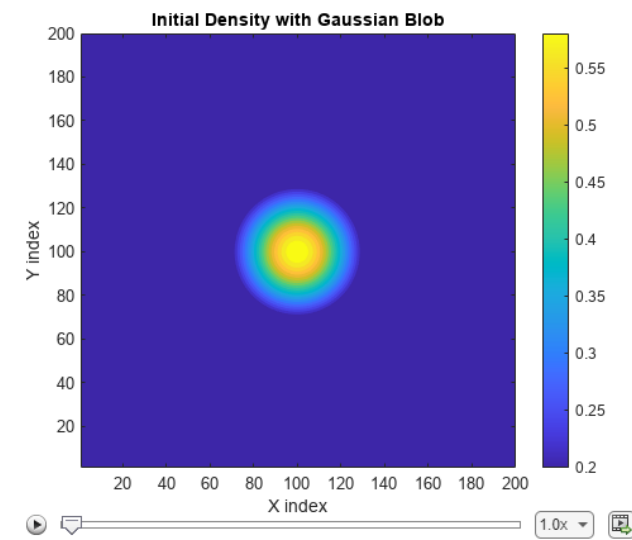
Here I was interested to know where does the crowd move, if both the exit is equi-distance from it.

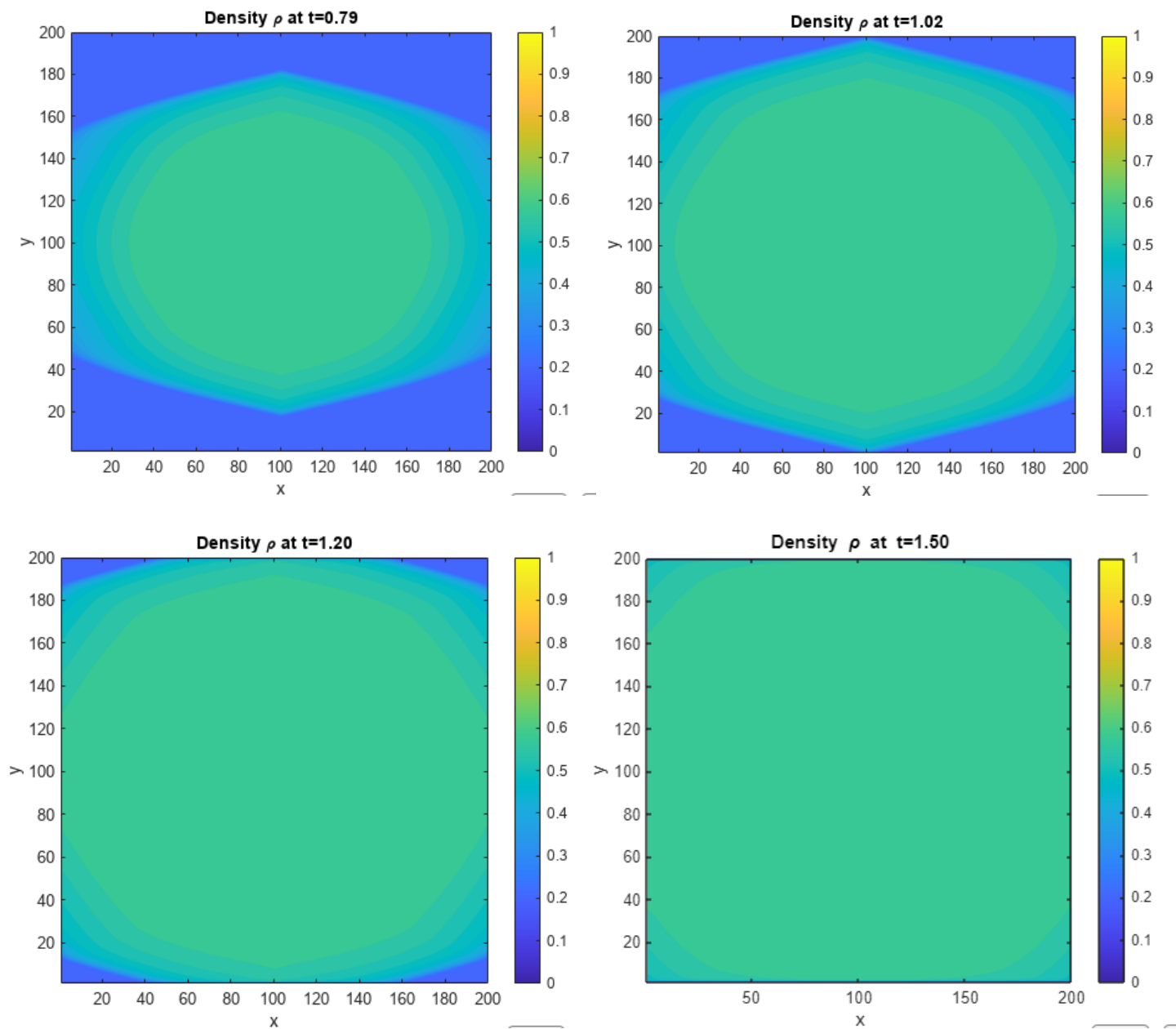
Domain

Multi Exit Problem



Results

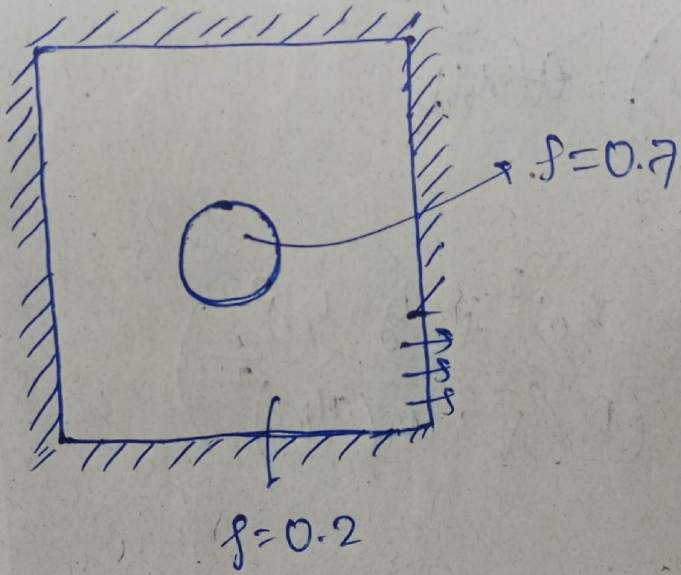




Problem 4 (Unsymmetric Exit)

Domain

Unsymmetric Exit



Results

