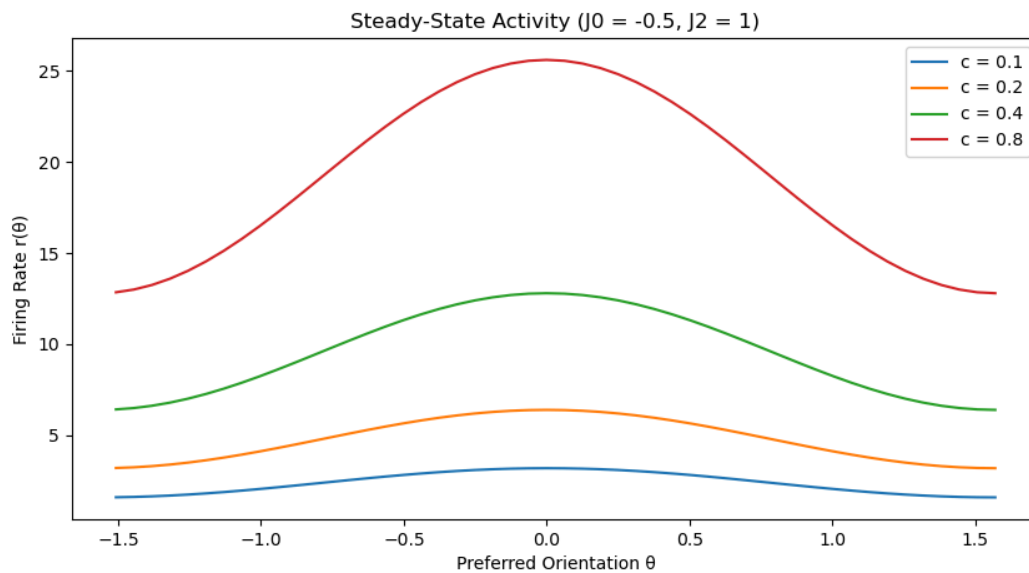# HOMEWORK - 04
Computational Neuroscience

[Submitted by: Priyansha Verma]

Question : 1

(a)

As the contract value increases, the external input to the network increases (feedforward input). In the first case, when J0 = -0.5 and J2 = 1, the graph shows a broad peak because of weaker recurrent activity. Whereas, in case of J0 = -7.3 and J2 = 11, there is strong recurrent connectivity in the network, the activity increases sharply over a short range of preferred orientations. This suggests that recurrent connectivity plays a role in enhancing orientation selectivity and controlling gain based on input strength.

(b)