Amrita Vishwa Vidyapeetham

Amrita School of Engineering, Bengaluru

I M. Tech.- Data Science

21MA602-Computational Linear algebra

Assignment -1.

Throughout this assignment take x and y as the last two digits of your register number.

For eg if your regno is BLENU4ECE21039 then x=3 and y=9. **( 10 Marks)**

Let be the TPM of a homogeneous Markov chain.

Find the steady state distribution of the chain. Check if 1 is an eigen value of the transpose of P. Verify that the eigen vector corresponding to this is the steady state distribution of the chain.