**Output:**

"/Users/zhangke/PycharmProjects/DataScience-Ke Zhang/pythonProject/.venv/bin/python" /Users/zhangke/PycharmProjects/DataScience-Ke Zhang/HW7/HW7\_Code\_DS.py

0.945054945054945

DISCRETE-TIME MARKOV CHAIN

SIZE: 3

RANK: 3

CLASSES: 1

> RECURRENT: 1

> TRANSIENT: 0

ERGODIC: YES

> APERIODIC: YES

> IRREDUCIBLE: YES

ABSORBING: NO

MONOTONE: NO

REGULAR: YES

REVERSIBLE: YES

SYMMETRIC: NO

[array([0.33630952, 0.48214286, 0.18154762])]

['Penicillin', 'Ampicillin', 'Penicillin']

Process finished with exit code 0







