

CECS 451 Assignment 6

1. Done ✓
2. Write answers to the following questions.
  - a.  $P(\text{Visit to Asia} \mid \text{dyspnoea}) = \langle \mathbf{0.01032}, \mathbf{0.98968} \rangle$
  - b.  $P(\text{Tuberculosis} \mid \text{positive X-ray}, \neg \text{dyspnoea}) = \langle \mathbf{0.05402}, \mathbf{0.94598} \rangle$
  - c.  $P(\text{bronchitis} \mid \neg \text{lung cancer}) = \mathbf{0.44286}$
  - d.  $P(\neg \text{lung cancer} \mid \text{tuberculosis}, \neg \text{dyspnoea}) = \mathbf{0.95143}$
  - e.  $P(\text{Smoking} \mid \neg \text{positive X-ray}, \text{bronchitis}, \neg \text{visit to asia}) = \langle \mathbf{0.64565}, \mathbf{0.35435} \rangle$