University of West London

School of Computing and Engineering

CP60034E - Artificial Intelligence

Seminar Week-10: Bayes' Net

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1) For the example of tossing a normal (fair) coin, calculate the Probability of having the same side of the coin in two consecutive tosses. Justify your answer.

2) Draw a typical Bayesian network for the following domain of slippery pavement problem:

- Season
- Raining
- Sprinkler
- Wet pavement
- Slippery pavement

3) You have a new burglar alarm installed at home. It is fairly reliable at detecting a burglary, but also responds on occasion to minor earthquakes. You also have two neighbours, John and Mary, who have promised to call you at work when they hear the alarm. Draw a Bayesian network for this domain.