**Objectives**

The objectives for this assessment are to:

* Build a Bayesian Network to model a medical diagnosis scenario.
* Use the network to calculate the probabilities of different outcomes (e.g., diseases) given observed symptoms.

**Dataset**

You will simulate a small dataset for this assessment where:

* **Variables**: Fever, Cough, Fatigue, and Disease (Flu, COVID-19, or None).
* **Conditional Probabilities**: Manually defined to represent relationships between symptoms and diseases.