# 1 Chapter 12 Inference in a Changing World

**Problem 12.2** Change points, where an aspect of the world undergoes a sudden change, happen in many domains. Think of three real-world examples not mentioned in this chapter.

## Answer

#### 1. Crashed in stock market

For example, if some big political news (:) such as the tariff)/earning call announced, it can cause an abrupt and drastic change in stock prices. This represents a change point where the statistical properties (mean, variance) of returns shift abruptly.

## 2. Server Outage in Network Monitoring

In cybersecurity or IT systems, the traffic volume or error rate can shift abruptly due to a server crash or cyberattack, indicating a change point in system behavior.

### 3. Sudden weather events

In meteorology, the onset of a storm or cold front may cause an abrupt change in temperature, wind speed, or barometric pressure. This represents a clear and measurable change point in time-series weather data.