

Assessment Solutions

Chapter 17 – Applying the Factory Pattern

1. **a – b:** Please see `Assessments/Chapter17/Chp17-Q1.cpp` in the GitHub repository.
2. Other examples which may easily incorporate the Factory Method pattern include many types of applications in which various derived classes may need to be instantiated based upon the specific values provided at construction. For example, a payroll application may require various types of `Employee` instances, such as `Manager`, `Engineer`, `Vice-President`, and so on. A factory method can provide a way to instantiate the various types of `Employee` based on the information provided when the `Employee` is hired. The Factory Method pattern is a pattern that can be applied to many types of applications.