

Q2, The pattern we chose for this question is Bridge pattern which we believe is best suited for the problem in hand. In this problem we are presented with different ways in which product data should be displayed (A-products with their sales figure. B-products with the number of units shipped. C-products in alphabetical order). We can display these data as.

1. Simple list of products
2. Table containing the products alongside the necessary attribute required (sales figure or units shipped)

Although these two methods can display the data, changes in the way they display it might need to change. As these ways change we need to be able to use the existing displays. Otherwise we need to modify existing classes or derive new classes which will be impractical as the number of different ways to represent the data increases. To avoid such problems we can use the bridge pattern where bridge class will return the right form of display from the options available and will be equipped with the ability to determine which class to instantiate. In our implementation this decision is based on the type of user logged in and button clicks which provide different options.