ReserveAndPickup.java

```
public interface ReserveAndPickup {
   boolean checkAvailability(String productId, String storeId);
   void reserveProduct(String productId, String storeId);
}
```

BestBuyReserveAndPickup.java

```
1 /**
* BestBuyReserveAndPickup
4 public class BestBuyReserveAndPickup implements ReserveAndPickup {
      public boolean checkAvailability(String productId, String storeId) {
          // Always return true for simplicity
          return true;
9
10
      public void reserveProduct(String productId, String storeId) {
11
12
          if(checkAvailability(productId, storeId)){
13
              System.out.println("Reserved product " + productId + " at store " + storeId)
14
15
          else{
16
17
              System.out.println("Failed to reserve product. Product unavailable.");
18
19
      }
20
21 }
```

There is more code below this

```
public interface OnlineOrdering {
    boolean checkAvailability(String productId, String zipCode);
    void placeOrder(String productId, String zipCode);
}
```

OnlineOrderingAdapter.java

```
1 /**
* OnlineOrderingAdapter
4 public class OnlineOrderingAdapter implements OnlineOrdering {
      private ReserveAndPickup RandP;
      public OnlineOrderingAdapter(ReserveAndPickup reserveAndPickup) {
          this.RandP = reserveAndPickup;
9
10
11
      public boolean checkAvailability(String productId, String zipCode) {
          // Map the zip code to a store ID (for simplicity, we assume all products are
13
      available in all stores)
14
          String storeId = zipCodeToStoreId(zipCode);
          // Check availability using the ReserveAndPickup interface
15
          return RandP.checkAvailability(productId, storeId);
16
17
18
      public void placeOrder(String productId, String zipCode) {
19
          // Map the zip code to a store ID
20
          String storeId = zipCodeToStoreId(zipCode);
21
          // Reserve the product using the ReserveAndPickup interface
22
          RandP.reserveProduct(productId, storeId);
23
          System.out.println("Placed online order for product " + productId + " with
24
      pickup at store " + storeId);
25
26
27
      private String zipCodeToStoreId(String zipCode) {
          // For simplicity, we just use the zip code as the store ID
28
          return zipCode;
29
      }
30
31 }
```

There is more code below this.

```
public class Main {
       public static void main(String[] args) {
            ReserveAndPickup reserveAndPickup = new BestBuyReserveAndPickup();
            OnlineOrdering onlineOrdering = new OnlineOrderingAdapter(reserveAndPickup);
            // Simulate a customer checking availability and placing an order
           String [] productId = new String[] {"0001","0002","0003","0004","0005","0006"};
String [] zipCode = new String[] {"23047","23054","23099","23032","22347","20987
9
            for (int i = 0; i < zipCode.length; i++) {</pre>
10
11
                if (onlineOrdering.checkAvailability(productId[i], zipCode[i])) {
12
                     onlineOrdering.placeOrder(productId[i], zipCode[i]);
13
14
15
                     System.out.println("Product " + productId + "is not available for online
        ordering in ZIP code" + zipCode);
16
17
18
19
       }
20
21
```

There is no more code below this.