1. What is the difference in recyclerView and listView?

ListView is the original way to scroll through a list of data in Android. ListView would load all the items in the list at once and could only scroll vertically. This made ListView very heavy to load in to memory with large data list. With Android 5, Lollipop, RecyclerView was introduced. RecyclerView allowed for a more efficient way of scrolling through a list. RecycleView implements lazy loading which only loads a little more than what can fit on the screen of the list. When scrolling, the RecycleView would load more of the list while unrendering what comes out of view. RecyclerView also allows vertical and horizontal scrolling as well as easier and more ways to edit the list. However, RecyclerView does not have an onClickListener by default while ListView does.

2. Define lazy loading.

Lazy loading is a design pattern in which objects are not initialized until object is needed. This allows for more efficient performance if used properly.

3. What is an item decorator in RecyclerViews?

An item decorator is a divider between item views in the RecyclerView. They allow for decorative borders, the spacing between the items to be offset,to visual group items, and other ways to manipulate the spacing between the item views.

4. What is the View Holder Pattern?

The View Holder Pattern is a pattern used to increase the speed of the ListView. This pattern reuses old views to reduce the amount of findViewById calls are invoked. Without using this pattern, the ListView by default will continue to make new views. This principle is used by default in RecyclerView.

5. How do you implement an item touch helper for the RecyclerView?

ItemTouchHelper is a utility class to add swipe to dismiss and drag & drop support to RecyclerView. To implement an ItemTouchHelper, the methods onMove and/or onSwipe should be overridden depending on which functionality is desired. To optimize for custom LayoutManagers, the ItemTouchHelper.Callback class can be extended or implementing ItemTouchHelper.ViewDropHandler interface in your LayoutManager. The ItemTouchHelper move items by their X/Y positions. To change this behavior, the onChildDraw or onChildDrawOver can be overridden but onChildDraw general the only one that needs to be overridden.