Homework Week Two Day two

Research
1. **What is the difference in recyclerView and listView**?
One of the main differences between a **recyclerView** and **Listview** is the fact a **recycler view** utilizes lazy loading . While the **ListView** renders all the data at once.
Another difference is the fact **RecyclerView** does not have an item click listener by default. While the Item List does.
What are the three recycler view methods an adapter utilizes?
To add to this, a recycler view Adapter utilizes the 3 key methods
 onBindViewHolder(), this method is where we pass our data to our viewholder
onCreateViewHolder(), called when the adapter is created and used to initialize our viewholders
getitemCount() returns the size of the collection that contains the items we want to display.
and the internal view holder class.
RecyclerView Layout Manager - is responsible for measuring and positioning item views within a recylerView.

2. Define lazy loading.
Lazy loading is a design pattern used to deter initialization of an object until the point it is needed. This contributes to better efficiency in the programs operation.

3. What is an item decorator in RecyclerViews?
An Item Decorator allows the application to add a special drawing and layout offset to specific item views from the adapter set.

4. What is the View Holder Pattern?
The View Holder Pattern is a pattern that a developer can use to increase the speed at which a List View renders. It Describes which view will be placed within a recycler view

5. How do you implement an item touch helper for the RecyclerView?
An item touch helper is an Android utility class we use to add support for gestures.
It is implemented by calling the ItemTouchHelper.Callback