1)

package com.example.week6adapter;  
  
import android.util.Log;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.TextView;  
  
import androidx.annotation.NonNull;  
import androidx.recyclerview.widget.RecyclerView;  
  
import java.util.ArrayList;  
  
public class Week6Adapter extends RecyclerView.Adapter<Week6Adapter.ViewHolder> {  
  
 ArrayList<PersonName> names = new ArrayList<PersonName>();  
  
 public Week6Adapter(ArrayList<PersonName> names) {  
 this.names = names;  
}  
  
 @NonNull  
 @Override  
public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {  
 View v = LayoutInflater.from(parent.getContext()).inflate(R.layout.week6\_name\_card,parent,false);  
ViewHolder viewHolder = new ViewHolder(v);  
Log.d("week6App","onCreateViewHolder");  
 return viewHolder;  
}  
  
 @Override  
public void onBindViewHolder(@NonNull ViewHolder holder, int position) {  
 holder.firstname\_id.setText(names.get(position).getFirstName());  
holder.lastname\_id.setText(names.get(position).getLastName());  
}  
  
 @Override  
public int getItemCount() {  
 return names.size();  
}  
  
 public class ViewHolder extends RecyclerView.ViewHolder{  
 public TextView firstname\_id;  
 public TextView lastname\_id;  
  
 public ViewHolder(@NonNull View itemView) {  
 super(itemView);  
firstname\_id = itemView.findViewById(R.id.firstname\_id);  
lastname\_id = itemView.findViewById(R.id.lastname\_id);  
}  
 }  
}

2)

-Activities represent the full screen while fragments is a portion of UI in an activity

-An Activity can exist independently without other activities, while fragments must always be a part of an activity.

3)

Param1 is the FrameLayout(container) that can be used to hold a fragment which is added by the Param2. Param1's data type will be layout and Param2's data type will be Fragment which has the role is to display an UI.

Param3 is the name of the transaction/ back stack state that can be saved in the back stack. Its data type is String