**ASSIGNMENT-4**

1. What is a GridView in Android, and when would you prefer it over a ListView?
2. Explain how to implement a WebView in an Android application. What are the common use cases for using a WebView?
3. Describe the purpose of a ScrollView in Android, and how can you nest multiple views inside it?
4. What are the differences between ListView and RecyclerView in terms of performance and usage?
5. How do you implement a RecyclerView with a CardView layout? Provide a brief overview of the steps involved.
6. What is the purpose of using a CardView in an Android application, and how does it enhance the user interface?
7. What are Fragments in Android, and how do they differ from Activities?
8. Explain the Fragment lifecycle. Which lifecycle methods are crucial for managing the Fragment state?
9. How can you pass data between an Activity and a Fragment in Android? Provide code examples if necessary.

10.What is the significance of using FragmentTransaction, and how do you add, replace, or remove fragments?

11.How do you handle back navigation when using multiple fragments in a FragmentManager?

12.What is the ViewModel and LiveData architecture component, and how do they work well with Fragments to maintain UI state?

13.Describe how you would implement a RecyclerView with a custom adapter. What are the key methods you need to override?

14.How do you customize the layout of individual items in a GridView or ListView?

15.In what scenarios would you use a Fragment with a ViewPager, and how do you implement it?