**Java ☕️**

* What is the diff between encapsulation & abstraction (practical example) — [Check here](https://www.javatpoint.com/abstraction-vs-encapsulation-in-java#:~:text=Abstraction%20is%20a%20feature%20of,issue%20at%20the%20design%20level.)
* HashMaps vs HashTables — [Check here](https://www.geeksforgeeks.org/differences-between-hashmap-and-hashtable-in-java/)
* When to use array & ArrayList — [Check here](https://www.javatpoint.com/difference-between-array-and-arraylist)
* What is the volatile keyword — [Check here](https://www.javatpoint.com/volatile-keyword-in-java#:~:text=Volatile%20keyword%20is%20used%20to,with%20primitive%20type%20or%20objects.)
* What is the transient keyword — [Check here](https://www.javatpoint.com/transient-keyword)
* What is a diff between a string buffer & string builder — [Check here](https://www.digitalocean.com/community/tutorials/string-vs-stringbuffer-vs-stringbuilder)
* Why is string immutable — [Check here](https://www.digitalocean.com/community/tutorials/string-vs-stringbuffer-vs-stringbuilder)
* Explain multithreading. How two threads pass messages internally — [Handler](https://developer.android.com/reference/android/os/Handler#:~:text=A%20Handler%20allows%20you%20to,is%20bound%20to%20a%20Looper%20.)
* class A -> extends class B, implements interface C. Both have the same method fun add() {}, Which one will be implemented in class A?  
  [Try yourself](https://pl.kotl.in/fRTo80wWr)
* What is the difference between String test = new String(“X”) & String test = “X”. Explain String constant pool & String literal — [Check here](https://www.javatpoint.com/string-pool-in-java)

**Android**

* When I am in my activity onResume() & get a phone call what will be the lifecycle of the fragment inside my activity — [Try yourself](https://pl.kotl.in/fRTo80wWr)
* Explain context & applicationContext, also a practical example — [Check here](https://www.geeksforgeeks.org/what-is-context-in-android/#:~:text=Both%20the%20Activity%20and%20Application,both%20extend%20the%20Context%20class.)
* what is the difference between ViewModel and AndroidViewModel — [Check here](https://stackoverflow.com/questions/44148966/androidviewmodel-vs-viewmodel)
* what is the diff between MVP & MVVM — [Check here](https://blog.mindorks.com/mvc-mvp-mvvm-architecture-in-android)
* Tell me any method of broadcast receiver except onReceive() — [Check here](https://developer.android.com/reference/android/content/BroadcastReceiver#summary)
* How Broadcast receiver is used for the network (WIFI) changes — [Check here](https://www.geeksforgeeks.org/broadcast-receiver-in-android-with-example/)
* Type of services in Android — [Check here](https://www.geeksforgeeks.org/services-in-android-with-example/)
* Is the Intent service run on background or main thread — [Check here](https://stackoverflow.com/a/15772151/14241355)
* Explain FCM foreground & background notifications — [Check here](https://firebase.google.com/docs/cloud-messaging/android/receive)
* Design patterns in Android — [Check here](https://blog.mindorks.com/mastering-design-patterns-in-android-with-kotlin)
* What do you think about NavHost in navigation? — [Check here](https://developer.android.com/guide/navigation/navigation-getting-started#add-navhost)
* Explain database management using SQLite, Room & Realm — [Check here](https://medium.com/bitrise/realm-vs-sqlite-which-database-is-better-for-android-apps-c751dc8b150c)
* What is a foreign key in Room DB? Why do we use it? — [Check here](https://stackoverflow.com/a/56707343/14241355)
* What is doze mode, and when is it introduced? — [Check here](https://medium.com/mindorks/you-have-to-know-more-about-doze-mode-3d80f016f8ad)
* what is ADB, can you tell me any commands? — [Cheatsheet](https://devhints.io/adb" \t "_blank)
* what is linting in Android — [Check here](https://blog.mindorks.com/what-is-lint-what-is-it-used-for)
* What is Rxjava, and how it works? — [Check here](https://blog.mindorks.com/rxjava-for-android-rxandroid)
* What are SOLID principles? — [Check here](https://www.geeksforgeeks.org/solid-principle-in-programming-understand-with-real-life-examples/)
* Have you worked with any other hardware systems? (i.e. I have worked with Clover POS system)
* What is KMM? — [Check here](https://kotlinlang.org/docs/multiplatform.html)

**Kotlin**

* What are the benefits of Kotlin over Java
* Explain the use of lateinit & lazy keywords
* In any class we have a member variable or function, so how can we make a getter setter of that variable?
* What is MVVM, and how does it work? what is the use of Live data?
* What is null safety in Kotlin?
* What is the diff between Var & Val
* What is Elvis operator?
* What is Flow API in Kotlin — [Check here](https://developer.android.com/kotlin/flow)
* Explain coroutines in kotlin
* What are scoped functions in kotlin
* How can you declare a singleton class
* what is the diff between companion obj & object
* used extension functions? example
* what is the diff between static & singleton > Singleton has an instance/object while static class is a bunch of static methods.
* what is constant
* Explain [@jvmstatic](http://twitter.com/jvmstatic) [@jvmoverloads](http://twitter.com/jvmoverloads) [@jvmfiled](http://twitter.com/jvmfiled)

*You can get most of the Kotlin****answers****here:*[*https://blog.mindorks.com/kotlin-android-interview-questions*](https://blog.mindorks.com/kotlin-android-interview-questions)

**Jetpack Compose 🚀**

* What are the benefits of using Jetpack compose?
* What is a Composable function?
* What is a declarative approach?
* What jetpack compose libraries have you used?
* Explain compose UI basic components

*Jetpack compose blogs with Github examples:*[*Jetpack Composers*](https://medium.com/jetpack-composers)

**Testing 🐛**

* In Unit testing, what is @Before & @Beforeclass annotation used for — [Check here](https://www.baeldung.com/junit-before-beforeclass-beforeeach-beforeall)
* Why should we use a [Mockito](https://blog.mindorks.com/using-mockito-in-android-unit-testing-as-a-pro" \t "_blank) lib?
* Explain [Unit](https://developer.android.com/training/testing/local-tests) & [Instrumentation](https://developer.android.com/training/testing/instrumented-tests) tests

*Espresso Testing Library:*[*Espresso UI Testing for Intents*](https://medium.com/@mansikothari115/espresso-ui-testing-for-intents-in-android-a81660e8e93)

https://proandroiddev.com/modern-android-interview-questions-f2b9889102ee