

# Android Development with Kotlin Training Agenda

## Day 1 (Get Familiar with Kotlin)

### Introduction to Kotlin

Basics of Kotlin

Functions

*Classes & Objects*

## Day 2 (Get Familiar with Android Studio)

### Introduction to Android Studio

Installation & Setup

Build your first Android App      *1 App[Hello Word]*

Layouts & Design                      *1 App[ Hello Toast]*

## Day 3 (App Navigation & Lifecycle)

### App building blocks and Architecture

Navigation with Intents and it types      *1 App [ Dialer & Hyperlink]*

Activity and Fragment life cycles              *2 App [ Activity & Fragments Demo ]*

## Day 4 (Android App Menu's & Components)

Menus in Android                      *1 App [ Option Menus ]*

Services & Types                      *1 App [ Music Player ]*

## Day 5 (Connecting to Internet & RecyclerView)

Recyclerview with local data *1 App [ Movies app with static data]*

Connect to the Internet *1 App [ Download & Show Image ]*

## Day 6 (Connecting to Internet & RecyclerView)

Pojo classes and JSON parsing

Recyclerview with global data *1 App [ Covid 19 app with real time data]*

### **ASSIGNMENTS :**

- 1. Birthday Greetings with background image.**
- 2. Age Calculator**
- 3. Create an android app with Registration Form and Login Form**
- 4. Registration / Login Form validation**
  - a. Client side**
  - b. Awesome validation**
- 5. Calculator app to perform basic calculations**
- 6. Simple Piano App**
- 7. Gallery app**
- 8. Weather App**
- 9. News App**
- 10. Movies App using the Moviesdb.**

## Day 7 (Assistance on above tasks)

Assistance/Implementation issues /doubts resolve *10 Apps [From Tasks List]*

*(If Required might be extend)*

## Day 8 (Local Storage)

Shared Preference Database *1 App [ Settings App ]*

Tab Navigation with Viewpager

1 App [ Whats app]

## Day 9 (Room persist libraries)

Room Database with Recyclerview (Explanation)

*Room Database with CRUD Operations Implementation*

1 App [ real time database]

## Day 10 (Room persist libraries)

*Room Database with CRUD Operations with LiveData time data]*

1 App [ Movies app with real

App Notifications

1 App [ Notifications app]

## Day 11 (Task schedulers)

Job scheduler ( Explanation )

Workmanager

1 App [ Workmanager app]

## Day 12 (Working with remote apis Meals DB)

Meals db explanation

Baking app

1 App [ Food recipe app]

-----THE END-----

*Note:Total 12 days hands on Practic*