

Foundation Course of Android Application Development

Lesson-1 Android Framework and Android Studio

1. Android Software Layers
2. Android Libraries
3. Components of Android Application
4. Activity Life Cycle
5. Pre-requisites for Android App Dev
6. Android Studio
7. Lab Program:-
Creating Your First Application

Lesson-2 Android SDK Tools and Activity class

1. Android Project Structure
2. The Android Manifest File
3. Structure of the Manifest File
4. Android SDK Tools
5. Activity
6. Lab Program:_
Operation Of Torch Light

Lesson-3 Fragments, Views and List View

1. Fragments
2. Views
3. List Views
4. Lab Program:-
Create Student List Of College

Lesson-4 Intents and Intent Filters

1. Intents
2. Native Android Actions
3. Data Transfer
4. Intent to Call Activities (Practical)
5. Lab Program:-
Send the Data Between The Activities

Lesson-5 Android Layouts

1. Layouts
2. Lab Program:_
Display Student Data In tabular Form

Lesson-6 Android Resources and Themes

1. Android Resources
2. Android Themes and Styles
3. Android Material Design
 - a) Floating Lable
 - b) RecyclerView
 - c) CardView
4. Lab Program:-
To-Do List Application in Material Design

Lesson-7 Android UI Dialogs, Menus, and Web View

1. Custom Dialogs
2. Dialogs(3 Types)
3. Toast
4. Menus
5. Context Menus
6. Popup Menus
7. Web View
8. Lab Program:_
Wallpaper Application

Lesson-8 Android Storage

1. Android Storage Options
2. Shared Preferences
3. Connecting to the Internet
4. Lab program:_
Download The Files From Internet

Lesson-9 Android Storage: SQLite and Content Providers

1. SQLite Database in Android
2. Content Providers
3. Native Android Content Providers
4. Custom Content Provider
5. Lab program:_
 - a) SQLite Database and Content Providers
 - b) Creating Simple To-Do List Application
 - c) Creating Contacts Selection Applications

Lesson-10 Android Notifications

1. Creating a Notification
2. Notification Actions
3. Notifications Layouts
4. Lab Program:-
Implementing Android Notifications



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