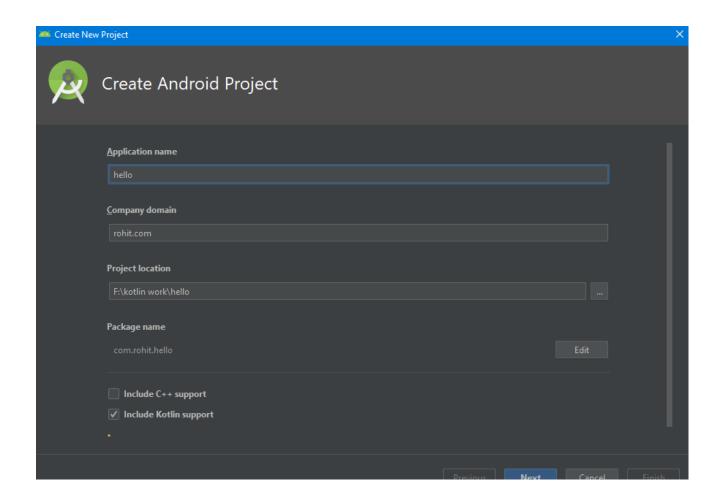
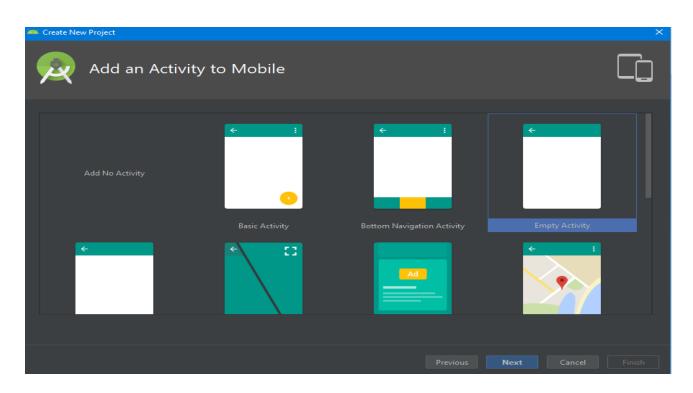
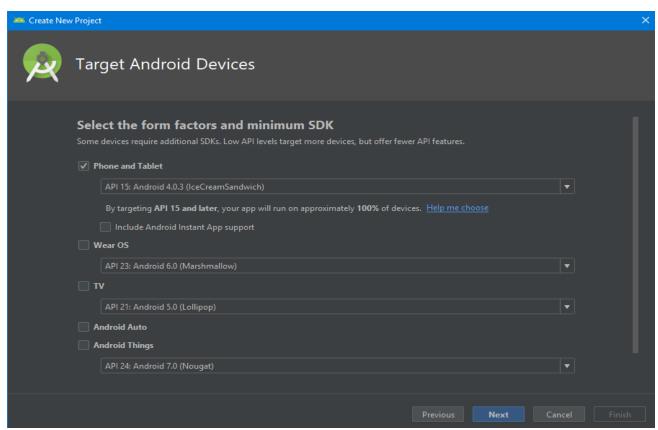
Introduction to Android, Introduction to Android Studio IDE, Application Fundamentals: Creating a Project, Android Components, Activities, Services, Content Providers, Broadcast Receivers, Interface overview, Creating Android Virtual device, USB debugging mode, Android Application Overview. Simple "Hello World" program.

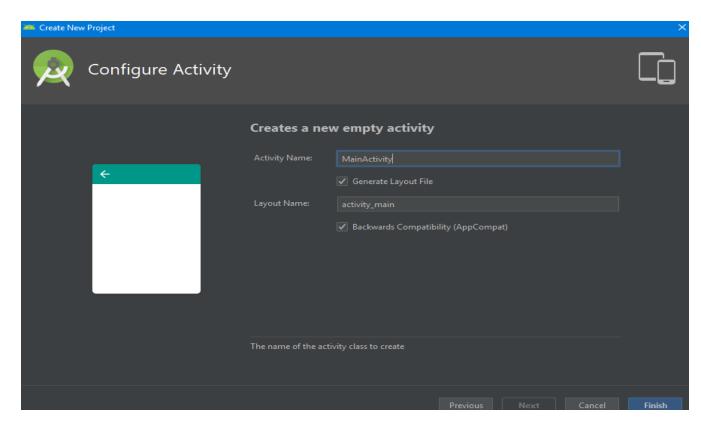
Solution:

Creating a project:









Activity_Main.Kt

```
package com.rohit.hello
import android.support.v7.app.AppCompatActivity
import android.os.Bundle

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
    }
}
```

Activity_Main.xml

```
app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"/>
</android.support.constraint.ConstraintLayout>
```



Apk in avd:

BroadcastActivity:

How to receiving Broadcast

Apps can receive and android Broadcast Receiver in two ways: through manifest-declared receivers and context-registered receivers. In this example, we are approaching manifest-declared Receiver. Learn step by step to the kotlin broadcast receiver example works.

Step 1. Create an android app, For creating an Android app with kotlin read this tutorial. Step 2.

Creating Broadcast Receiver

Create and extend Subclass and Broadcast Receiver implement. On Receive(Context, Intent)where on Receive method each message is received as an Intent object parameter.

```
My Receiver. kt:

import android.content.BroadcastReceiverimport
android.content.Context
import android.content.Intent
import android.widget.Toast

class MyReceiver: BroadcastReceiver() {

override fun onReceive(context: Context, intent: Intent) {

// TODO: This method is called when the BroadcastReceiver is receiving

// an Intent broadcast.

Toast.makeText(context, "Broadcast: Flight mode changed.",

Toast.LENGTH_LONG).show()

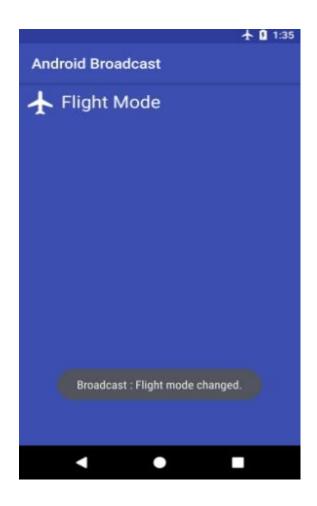
}

3. Declare a broadcast receiver in the manifest file
add the element<receiver> in your app's manifest. Here is code snap
```

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  package="in.eyehunt.androidbroadcasts">
  <application android:allowBackup="true"
     android:icon="@mipmap/ic_launcher"
     android:label="@string/app_name"
     android:roundIcon="@mipmap/ic_launcher_round"
     android:supportsRtl="true" android:theme="@style/AppTheme">
     <activity android:name=".MainActivity">
        <intent-filter>
           <action android:name="android.intent.action.MAIN"/>
           <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
     </activity>
     <receiver
        android:name=".MyReceiver"
        android:enabled="true"
        android:exported="true">
        <intent-filter>
           <action android:name="android.intent.action.AIRPLANE_MODE"/>
        </intent-filter>
```

```
</receiver>
     </application>
</manifest>
Note: If the app is not running and broadcast receiver declared in AndroidManifest.xml, then the system will
launch your app.
Step 4. MainActivity code, no needs to do anythingMainActivity.kt:
import android.support.v7.app.AppCompatActivityimport
android.os.Bundle
class MainActivity : AppCompatActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
     super.onCreate(savedInstanceState)
     setContentView(R.layout.activity_main)
   }
Step 5. Add following code in main_activity.xml
add <ImageView> and <TextView> widget layout file. main_activity.xml:
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent"
```

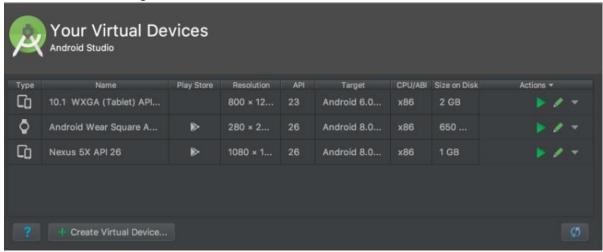
```
android:layout_height="match_parent"
android:background="@color/colorPrimary"
tools:context="in.eyehunt.androidbroadcasts.MainActivity">
<ImageView android:id="@+id/imageView"</pre>
  android:layout_width="40dp"
  android:layout_height="40dp"
  android:layout_margin="8dp"
  android:layout_marginTop="16dp"
  app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent"
  app:srcCompat="@mipmap/baseline_airplanemode_active_white_24" />
<TextView android:id="@+id/textView"
  android:layout_width="300dp"
  android:layout_height="36dp"
  android:layout_marginEnd="8dp"
  android:layout_marginStart="8dp"
  android:gravity="center_vertical"
  android:text="Flight Mode"
  android:textColor="@color/colorWhite" android:textSize="24dp"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintStart_toEndOf="@+id/imageView"
  app:layout_constraintTop_toTopOf="@+id/imageView"/>
   </android.support.constraint.ConstraintLayout>
```



Create and manage virtual devices:

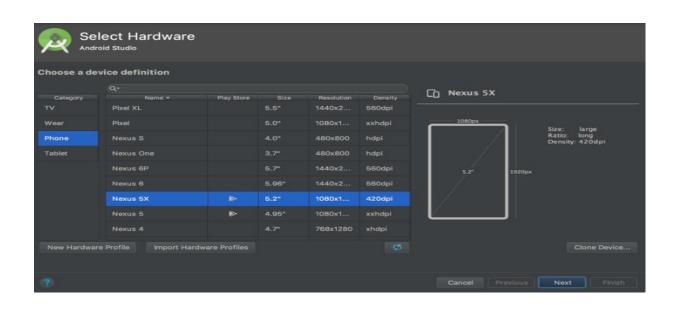
To open the AVD Manager, do one of the following:

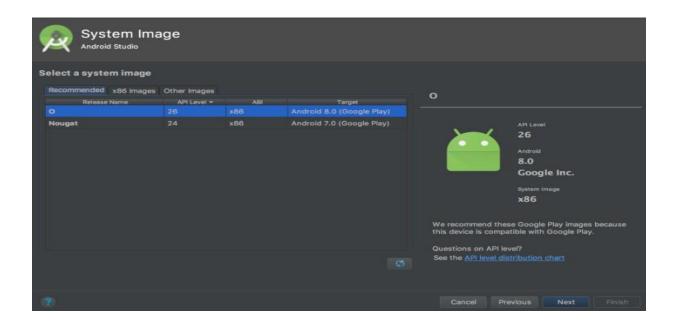
- Select Tools > AVD Manager.
- Click AVD Manager



AVD

Manager icon in the toolbar.



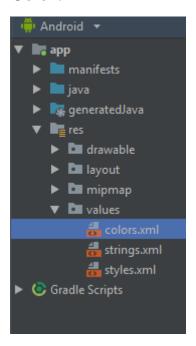




Programming Resources

Android Resources: (Color, Theme, String, Drawable, Dimension, Image).

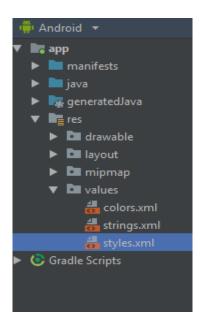
Color:



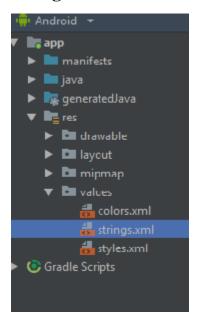
Color.xml

Theme:

Style.xml



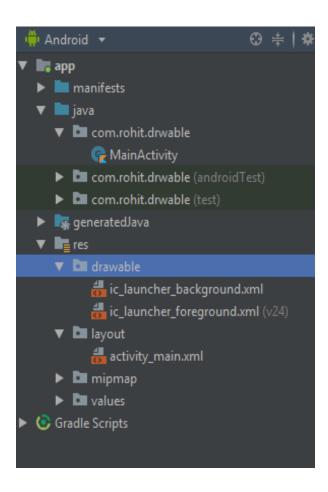
String:



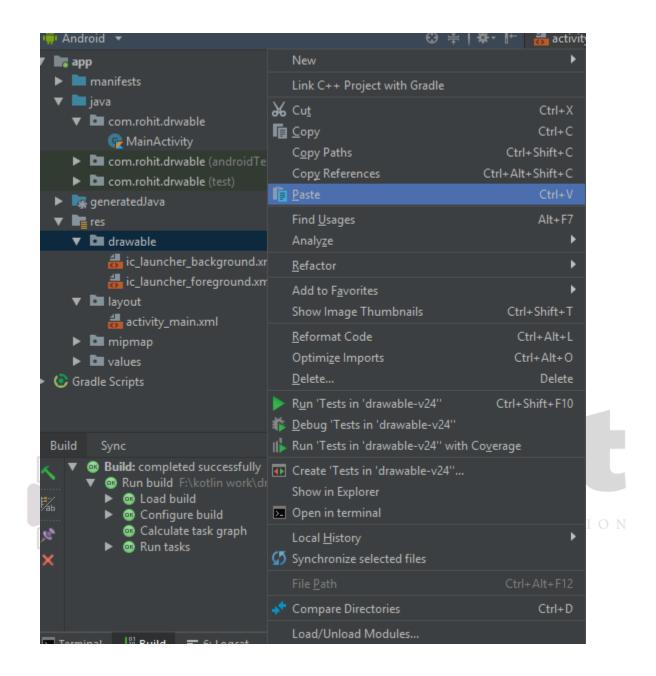
String.xml:

Drawable:

1. Right click on drawable folder



- 2. Copy the image if you want to create image drawable
- 3. Paste that image file inside the drawable folder



Note: to create drawable resource, right click on drawable folder and select drawable resource file.

Dimension, Image:

Main_Activity.kt:

```
package com.rohit.drwable
import android.support.v7.app.AppCompatActivity
import android.os.Bundle

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
```

```
super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)
}
```

activity_main.xml:

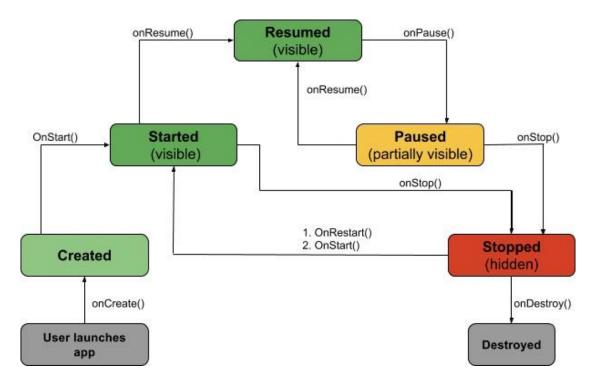
Output:



Programming Activities and fragments

Activity Life Cycle, Activity methods, Multiple Activities, Life Cycle of fragments and multiple fragments.

Activity Lifecycle:



• **onCreate():** Called by the OS when the activity is first created. This is where you initialize any UI elements or data objects. You also have the savedInstanceState of the activity that contains its previously saved state, and you can use it to recreate that state.\

fun onCreate(savedInstanceState: Bundle?) {
 super.onCreate(savedInstanceState)
 setContentView(R.layout.activity_task_description)

• **onStart():** Just before presenting the user with an activity, this method is called. It's always followed by onResume(). In here, you generally should start UI animations, audio based content or anything else that requires the activity's contents to be on screen.

•

- **onResume():** As an activity enters the foreground, this method is called. Here you have a good place to restart animations, update UI elements, restart camera previews, resume audio/video playback or initialize any components that you release during onPause().
- **onPause():** This method is called before sliding into the background. Here you should stop any visuals or audio associated with the activity such as UI animations, music playback or the camera. This method is followed by onResume() if the activity returns to the foreground or by onStop() if it becomes hidden.
- **onStop():** This method is called right after onPause(), when the activity is no longer visible to the user, and it's a good place to save data that you want to commit to the disk. It's followed by either onRestart(), if this activity is coming back to the foreground, or onDestroy() if it's being released from memory.
- **onRestart():** Called after stopping an activity, but just before starting it again. It's always followed by onStart().
- **onDestroy**(): This is the final callback you'll receive from the OS before the activity is destroyed. You can trigger an activity's description by calling finish(), or it can be triggered by the system when the system needs to recoup memory. If your activity includes any background threads or other long-running resources, destruction could lead to a memory leak if they're not released, so you need to remember to stop these processes here as well.

EXAMPLE:

```
override fun onSaveInstanceState(outState: Bundle?) {
```

Multiple Activities:

activity_first.xml code:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
xmlns:app="http://schemas.android.com/apk/res-auto"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context="ganeshannt.frist.FristActivity">

<Button
android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:onClick="Ganesh"
android:text="click third activity"
android:textColor="@color/colorPrimary"
app:layout constraintTop toTopOf="parent"</pre>
```

```
tools:layout_editor_absoluteX="168dp"
android:layout_toEndOf="@+id/text"
android:layout_marginBottom="196dp" />

<TextView
android:layout_width="wrap_content"
android:layout_beight="wrap_content"
android:layout_beight="wrap_content"
android:text="This s my first app!"
android:id="@+id/text"
tools:layout_editor_absoluteY="8dp"
tools:layout_editor_absoluteX="8dp" />
<Button
android:layout_width="wrap_content"
android:layout_beight="wrap_content"
android:id="@+id/button"
android:text="click second activity"
android:textColor="@color/colorPrimary"
android:contlick="Ganesh"
tools:layout_editor_absoluteX="168dp"
app:layout_constraintTop_toTopOf="parent"
android:layout_above="@+id/button2"
android:layout_alignStart="@+id/button2"
android:layout_alignStart="@+id/button2"
android:layout_marginBottom="40dp" />

</RelativeLayout>
```

activity_second.xml code:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:orientation="vertical" android:layout_width="match_parent"
android:layout_height="match_parent">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_margin="20pt"
android:text="second acticity is working..."
android:textAllCaps="true"
android:textColor="@color/colorPrimaryDark"/>
</LinearLayout>
```

activity third.xml code:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:orientation="vertical" android:layout_width="match_parent"
android:layout_height="match_parent">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_margin="20pt"
android:text="Third activity is working....."
android:textAllCaps="true"
android:textColor="@color/colorPrimary"
/>
</LinearLayout>
```

Activity_first.kt

```
import android.content.Intent
import android.support.v7.app.AppCompatActivity
import android.support.v7.app.AppCompatActivity
import android.support.v7.app.AppCompatActivity
import kotlinx.android.synthetic.main.activity_main.*
import kotlinx.android.synthetic.main.activity_main.*
import kotlinx.android.synthetic.main.activity_register.*
import rohit.technobeat.R.id.login
import rohit.technobeat.R.id.login
import rohit.technobeat.R.id.newaccount

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentViev(R.layout.activity_main)
        second.setOnClickListener {
        val intent = Intent(this, Activity_second::class.java)
        // start your next activity
        startActivity(intent)
    }

    third.setOnClickListener {
        val intent = Intent(this, Activity_third::class.java)
        // start your next activity
        startActivity(intent)
    }
}
```

Programs related to different Layouts

Coordinate, Linear, Relative, Table, Absolute, Frame, List View, Grid View.

1. linear layout:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="fill_parent"
android:layout_height="fill_parent"
android:orientation="vertical" >

<Button android:id="@+id/btnStartService"
android:layout_width="270dp"
android:layout_height="wrap_content"
android:text="start_service"/>

<Button android:id="@+id/btnPauseService"
android:layout_width="270dp"
android:layout_width="270dp"
android:layout_height="wrap_content"
android:text="pause_service"/>

<Button android:id="@+id/btnStopService"
android:layout_height="wrap_content"
android:layout_width="270dp"
android:layout_width="270dp"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:text="stop_service"/>

</LinearLayout>
```

2. Relative:

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="fill_parent"
android:layout_height="fill_parent"
android:paddingLeft="l6dp"
android:paddingRight="l6dp" >

<EditText
android:id="@+id/name"
android:layout_width="fill_parent"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:orientation="vertical"
android:layout_width="fill_parent"
android:layout_height="fill_parent"
android:layout_height="fill_parent"
android:layout_height="fill_parent"
android:layout_below="@+id/name">

<Button
android:layout_width="wrap_content"
android:layout_height="wrap_content"
```

```
<Button
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="New Button"
android:id="@+id/button2" />
</LinearLayout>
</RelativeLayout>
```

3. Table:

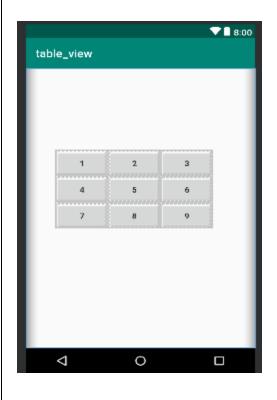
Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
           </TableRow>
            </TableRow>
```

Activity_main.kt

```
package com.r.table_view
```

output:



4. Frame:

Activity_main.xml

Activity_main.kt

```
package com.rohit.frame_layout
import android.support.v7.app.AppCompatActivity
import android.os.Bundle

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
    }
}
```

output:



5. List View:

Activity_main.xml

```
android:text="Click me to view list"
  android:layout_marginTop="200dp"
  android:layout_marginLeft="90dp"/>
</LinearLayout>
```

String.xml

Activity_list_view.xml:

List_view.kt:

```
package com.rohit.list
import android.support.v7.app.AppCompatActivity
import android.os.Bundle

class list_view : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_list_view)
    }
}
```

main_Activity.kt

```
import android.content.Intent
import android.support.v7.app.AppCompatActivity
import android.os.Bundle
import kotlinx.android.synthetic.main.activity_main.*
class MainActivity : AppCompatActivity() {
```

```
override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main)

    btn.setOnClickListener {
       val intent =Intent(this, list_view::class.java)
            startActivity(intent)
    }
}
```

output:



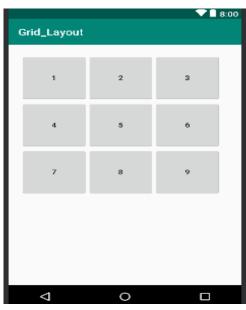
6. Grid layout:

mainActvity.kt:

```
package com.rohit.grid_layout
import android.support.v7.app.AppCompatActivity
import android.os.Bundle

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
    }
}
```

output:



Programming UI elements

Design App With UI:

mainActivity.kt:

```
import android.content.Intent
import android.support.v7.app.AppCompatActivity
import android.support.v7.app.AppCompatActivity
import kotlinx.android.synthetic.main.activity_login.*
import kotlinx.android.synthetic.main.activity_main.*
import kotlinx.android.synthetic.main.activity_register.*
import rohit.technobeat.R.id.login
import rohit.technobeat.R.id.login
import rohit.technobeat.R.id.newaccount

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
            setContentView(R.layout.activity_main)
            login.setonClickListener {
            val intent = Intent(this, LoginActivity::class.java)
            // start your next activity
            startActivity(intent)
      }

      newaccount.setOnClickListener {
        val intent = Intent(this, RegisterActivity::class.java)
            // start your next activity
            startActivity(intent)
      }

}
```

activity_main.xml

```
android:layout_height="wrap_content'
     android:alpha="0.7"
android:text="TECHNOBEAT"
```

Output:



Programming menus, dialog, dialog fragments

Alert:

output:



Menu:

menu.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android&#8221;
xmlns:app="http://schemas.android.com/apk/res-auto"&gt;

<item
android:id="@+id/menu_1"
android:icon="@drawable/ic_menu_1"
android:title="Menu 1"
app:showAsAction="always" />
```

```
<item
android:id="@+id/menu_2"
android:icon="@drawable/ic_menu_2"
android:title="Menu_2" />

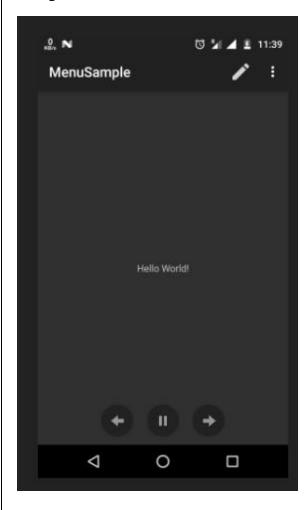
<item
android:id="@+id/menu_3"
android:icon="@drawable/ic_menu_3"
android:title="Menu_3" />

<item
android:id="@+id/menu_4"
android:id="@+id/menu_4"
android:icon="@drawable/ic_menu_4"
android:icon="@drawable/ic_menu_4"
android:title="Menu_4" />
</menu>
```

MainActivity.kt:

```
override fun onOptionsItemSelected(item: MenuItem): Boolean {
```

Output:



Programs on Intents, Events Listeners and Adapters

Event listeners

An event listener is an interface in the <u>View</u> class that contains a single callback method. These methods will be called by the Android framework when the View to which the listener has been registered is triggered by user interaction with the item in the UI.

Included in the event listener interfaces are the following callback methods: onClick()

From <u>View.OnClickListener</u>. This is called when the user either touches the item (when in touch mode), or focuses upon the item with the navigation-keys or trackball and presses the suitable "enter" key or presses down on the trackball.

onLongClick()

From <u>View.OnLongClickListener</u>. This is called when the user either touches and holds the item (when in touch mode), or focuses upon the item with the navigation-keys or trackball and presses and holds the suitable "enter" key or presses and holds down on the trackball (for one second). onFocusChange()

From <u>View.OnFocusChangeListener</u>. This is called when the user navigates onto or away from the item, using the navigation-keys or trackball.

onKey()

From <u>View.OnKeyListener</u>. This is called when the user is focused on the item and presses or releases a hardware key on the device.

onTouch()

From <u>View.OnTouchListener</u>. This is called when the user performs an action qualified as a touch event, including a press, a release, or any movement gesture on the screen (within the bounds of the item).

onCreateContextMenu()

From <u>View.OnCreateContextMenuListener</u>. This is called when a Context Menu is being built (as the result of a sustained "long click"). See the discussion on context menus in the <u>Menus</u> developer guide.

on-click listener for a Button

```
// Create an anonymous implementation of OnClickListener
private OnClickListener corkyListener = new OnClickListener() {
    public void onClick(View v) {
     // do something when the button is clicked
};
protected void onCreate(Bundle savedValues) {
    // Capture our button from layout
   Button button = (Button) findViewById (R.id.corky);
    // Register the onClick listener with the implementation above
   button.setOnClickListener(corkyListener);
For Extra load
public class ExampleActivity extends Activity implements OnClickListener {
    protected void onCreate(Bundle savedValues) {
        Button button = (Button)findViewById(R.id.corky);
       button.setOnClickListener(this);
    }
    // Implement the OnClickListener callback
    public void onClick(View v) {
     // do something when the button is clicked
}
```

Practical 8

Programs on Services, notification and broadcast receivers

1. Programs on Services:

Services are commands which are used by kotlin in functions to execute the task. They are: IntentService, onStartCommand(),onHandleIntent() etc.

- 2. notification and broadcast receivers:
 - Step 1. Create an android app, For creating an Android app with kotlin read this tutorial.
 - Step 2. Creating Broadcast Receiver Create and extend Subclass and BroadcastReceiver implement.onReceive(Context, Intent) where onReceive method each message is received as an Intent object parameter.

MyReceiver.kt:

Step 3. Declare a broadcast receiver in the manifest file add the element<receiver> in your app's manifest. Here is code snap

AndroidManifest.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
package="in.eyehunt.androidbroadcasts">

<application
android:allowBackup="true"
android:icon="@mipmap/ic_launcher"
android:label="@string/app_name"
android:roundIcon="@mipmap/ic_launcher_round"
android:supportsRtl="true"
android:theme="@style/AppTheme">
<activity android:name=".MainActivity">
<intent-filter>
<action android:name="android.intent.action.MAIN" />
<category android:name="android.intent.category.LAUNCHER" />
```

```
</intent-filter>
</activity>

<receiver
android:name=".MyReceiver"
android:enabled="true"
android:exported="true">
<intent-filter>
<action android:name="android.intent.action.AIRPLANE_MODE"/>
</intent-filter>
</receiver>
</application>

</manifest>
```

Note: If the app is not running and broadcast receiver declared in AndroidManifest.xml, then the system will launch your app.

Step 4. MainActivity code, no needs to do anything

MainActivity.kt:

```
package `in`.eyehunt.androidbroadcasts

import android.support.v7.app.AppCompatActivity
import android.os.Bundle

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
    }
}
```

Step 5. Add following code in main_activity.xml add <ImageView> and <TextView>widget layout file.

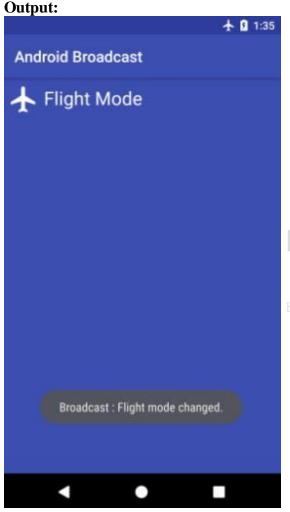
main_activity.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="@color/colorPrimary"
tools:context="in.eyehunt.androidbroadcasts.MainActivity">

<ImageView
android:id="@+id/imageView"
android:layout_width="40dp"
android:layout_height="40dp"
android:layout_height="40dp"
android:layout_margin="8dp"
android:layout_marginTop="16dp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:srcCompat="@mipmap/baseline_airplanemode_active_white_24" />

<TextView
android:id="@+id/textView"</pre>
```

```
android:layout_width="300dp
app:layout_constraintStart_toEndOf="@+id/imageView"
app:layout_constraintTop_toTopOf="@+id/imageView" />
```





Database Programming with SQLite

activity_main.xml:

```
android:onClick="deleteUser"
android:text="Delete" />

<Button
android:id="@+id/button_show_all"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="l"
android:onClick="showAllUsers"
android:text="Show All" />
</LinearLayout>
<TextView
android:id="@+id/textview_result"
android:layout_width="match_parent"
android:layout_height="wrap_content" />
<LinearLayout
android:id="@+id/ll_entries"
android:id="@+id/ll_entries"
android:id="@+id/ll_entries"
android:orientation="vertical"
android:layout_width="match_parent"
android:layout_width="match_parent"
android:layout_width="match_parent"
android:layout_height="wrap_content"></LinearLayout>
</LinearLayout></LinearLayout></LinearLayout></LinearLayout></ur>
```

UserModel.kt:

```
package com.tutorialkart.sqlitetutorial

class UserModel(val userid: String, val name: String, val age: String)
```

DBContract.kt

```
package com.tutorialkart.sqlitetutorial
import android.provider.BaseColumns

object DBContract {
    /* Inner class that defines the table contents */
    class UserEntry : BaseColumns {
        companion object {
            val TABLE_NAME = "users"
            val COLUMN_USER_ID = "userid"
            val COLUMN_NAME = "name"
            val COLUMN_AGE = "age"
        }
    }
}
```

UserDBHelper.kt:

```
import android.content.ContentValues
import android.content.Context
import android.database.Cursor
import android.database.sqlite.SQLiteConstraintException
import android.database.sqlite.SQLiteDatabase
import android.database.sqlite.SQLiteException
import android.database.sqlite.SQLiteException
import android.database.sqlite.SQLiteException
import android.database.sqlite.SQLiteOpenHelper
```

```
override fun onUpgrade (db: SQLiteDatabase, oldVersion: Int, newVersion: Int) {
   val values = ContentValues()
       db.execSQL(SQL CREATE ENTRIES)
```

```
name = cursor.getString(cursor.getColumnIndex(DBContract.UserEntry.COLUMN NAME))
   db.execSQL(SQL CREATE ENTRIES)
if (cursor!!.moveToFirst()) {
       name = cursor.getString(cursor.getColumnIndex(DBContract.UserEntry.COLUMN NAME))
```

MainActivity.kt:

```
import android.support.v7.app.AppCompatActivity
import android.os.Bundle
import android.view.View
import android.widget.TextView
import kotlinx.android.synthetic.main.activity_main.*

class MainActivity : AppCompatActivity() {
```

```
lateinit var usersDBHelper : UsersDBHelper
       var userid = this.edittext_userid.text.toString()
var name = this.edittext_name.text.toString()
var age = this.edittext_age.text.toString()
```

output:

