

COURSE OUTCOME 4

PROGRAM 1

AIM: Develop an application that uses GridView with images and displays an Alert box on selection.

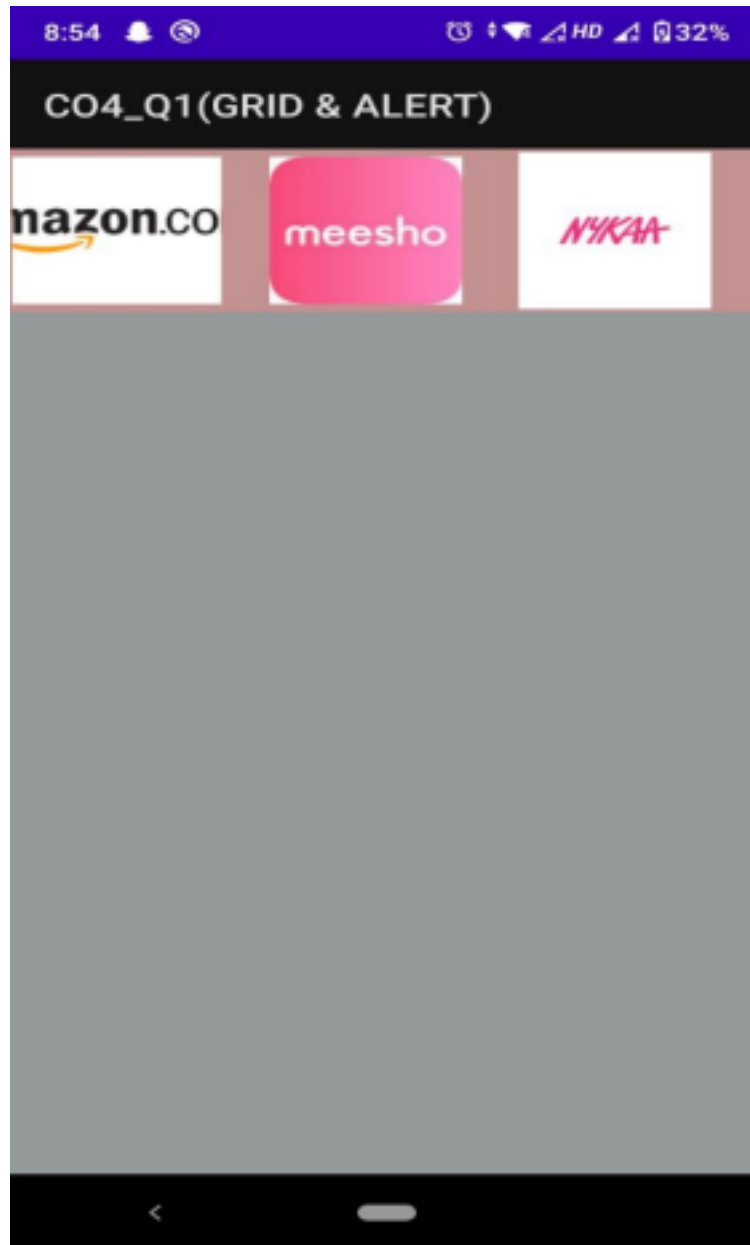
MainActivity.java	<pre>package com.example.co4_q1gridalert; import androidx.appcompat.app.AlertDialog; import androidx.appcompat.app.AppCompatActivity; import android.content.Context; import android.content.DialogInterface; import android.os.Bundle; import android.view.View; import android.widget.AdapterView; import android.widget.GridView; public class MainActivity extends AppCompatActivity { GridView gd; int logos[] = {R.drawable.d1,R.drawable.d2, R.drawable.d3}; String[] names={"AMAZON","Meesho","Nykaa"}; final Context context = this; AlertDialog.Builder builder; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); GridView gv = (GridView) findViewById(R.id.gridView); gv.setAdapter(new ImageAdapter(this)); builder = new AlertDialog.Builder(this); gv.setOnItemClickListener(new AdapterView.OnItemClickListener() { public void onItemClick(AdapterView<?> parent, View v, int position, long id) { builder.setMessage("Website Name : "+String.valueOf(names[position])) .setCancelable(false) .setPositiveButton("Ok", new DialogInterface.OnClickListener() { public void onClick(DialogInterface dialog, int id) { } } } } } }</pre>
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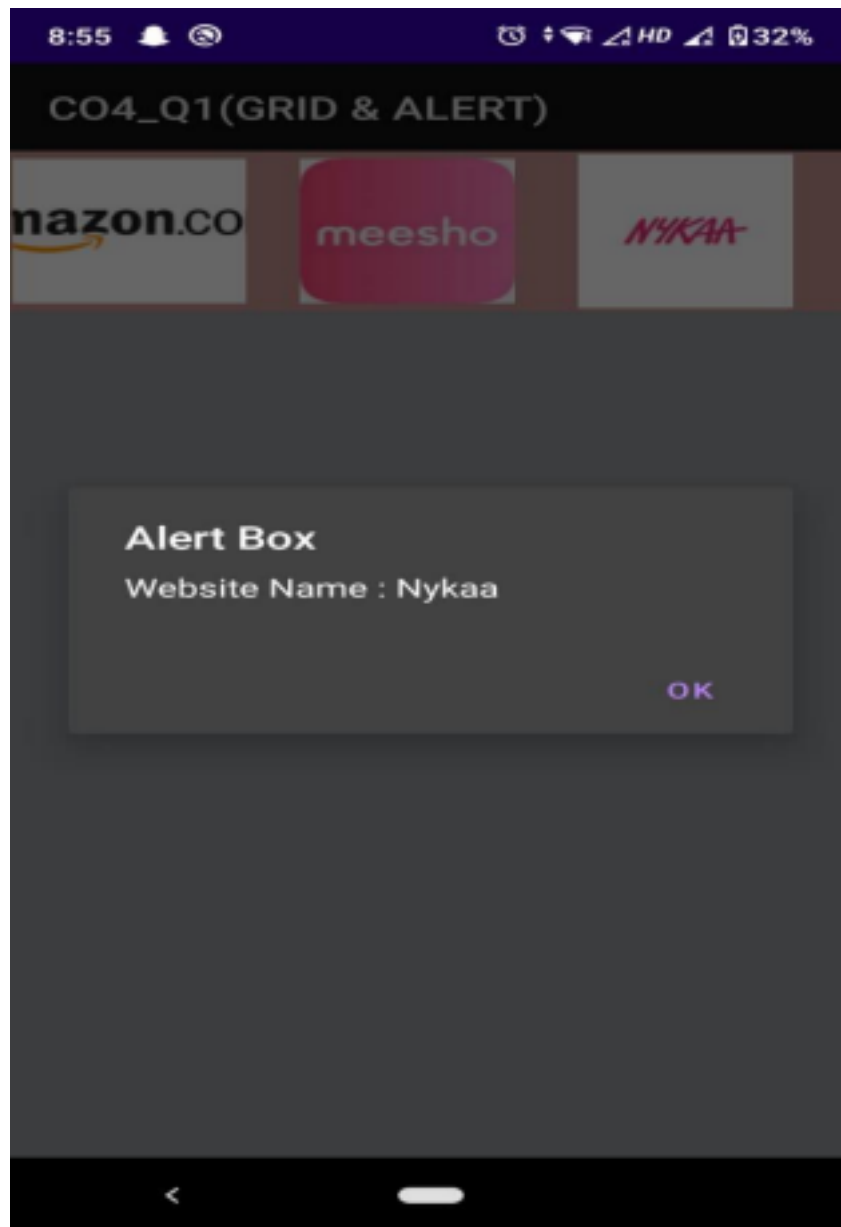
	<pre> }); AlertDialog alert = builder.create(); alert.setTitle("Alert Box"); alert.show(); } }); } } </pre>
ImageAdapter.java	<pre> package com.example.co4_q1gridalert; import android.content.Context; import android.view.View; import android.view.ViewGroup; import android.widget.BaseAdapter; import android.widget.GridView; import android.widget.ImageView; public class ImageAdapter extends BaseAdapter { private Context mContext; public ImageAdapter(Context c) { mContext = c; } public int getCount() { return thumbImages.length; } public Object getItem(int position) { return null; } public long getItemId(int position) { return 0; } public View getView(int position, View convertView, ViewGroup parent) { ImageView imageView = new ImageView(mContext); imageView.setLayoutParams(new GridView.LayoutParams(200, 200)); imageView.setScaleType(ImageView.ScaleType.CENTER_CROP); imageView.setPadding(8, 8, 8, 8); imageView.setImageResource(thumbImages[position]); return imageView; } } </pre>

	<pre> public Integer[] thumbImages = { R.drawable.d1, R.drawable.d2, R.drawable.d3 }; } </pre>
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activity_main.xml	<pre> <?xml version="1.0" encoding="UTF-8"?> -<LinearLayout tools:context=".MainActivity" android:background="#94999A" android:layout_height="match_parent" android:layout_width="match_parent" xmlns:tools="http://schemas.android.com/tools" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:android="http://schemas.android.com/apk/res/and roid"> <GridView android:background="#DFB7E6" android:layout_height="wrap_content" android:layout_width="fill_parent" android:padding="1dp" android:numColumns="3" android.footerDividersEnabled="false" android:backgroundTint="#C59292" android:id="@+id/gridView"/> </LinearLayout> </pre>
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OUTPUT





RESULT

Program has been successfully executed and output is obtained.

PROGRAM 2

AIM: Develop an application that implements Spinner components and performs event handling.

MainActivity.java	<pre>package com.example.spinner; import androidx.appcompat.app.AppCompatActivity; import android.view.View; import android.widget.AdapterView; import android.widget.AdapterView.OnItemClickListener; import android.os.Bundle; import android.widget.ArrayAdapter; import android.widget.Spinner; import android.widget.Toast; public class MainActivity extends AppCompatActivity implements AdapterView.OnItemClickListener { String[] fruit = {"APPLE", "ORANGE", "GRAPE", "PASSION FRUIT", "BANANA", "OTHERS"}; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); //Getting the instance of Spinner and applying OnItemClickListener on it Spinner spin = (Spinner) findViewById(R.id.spinner); spin.setOnItemSelectedListener(this); //Creating the ArrayAdapter instance having the country list ArrayAdapter aa = new ArrayAdapter(this, android.R.layout.simple_spinner_item, fruit); aa.setDropDownViewResource(android.R.layout.simple_spinner_ dropdown_item); //Setting the ArrayAdapter data on the Spinner spin.setAdapter(aa); } //Performing action onItemSelected and onNothing selected @Override public void onItemClick(AdapterView<?> arg0, View arg1,</pre>
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	<pre> int position, long id) { Toast.makeText(getApplicationContext(), fruit[position], Toast.LENGTH_LONG).show(); } @Override public void onNothingSelected(AdapterView<?> arg0) { // TODO Auto-generated method stub } } </pre>
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activity_main.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.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:id="@+id/button" android:layout_width="match_parent" android:layout_height="match_parent" android:background="#C1D5E4" android:backgroundTint="#76C7EC" tools:context=".MainActivity"> <Spinner android:id="@+id/spinner" android:layout_width="160dp" android:layout_height="50dp" android:layout_marginStart="124dp" android:layout_marginTop="268dp" android:background="#FFFD9F" android:backgroundTint="#FFF99F" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" tools:ignore="SpeakableTextPresentCheck" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
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OUTPUT





RESULT

Program has been successfully executed and output is obtained.

PROGRAM 3

AIM:Apply themes via code and manifest file.

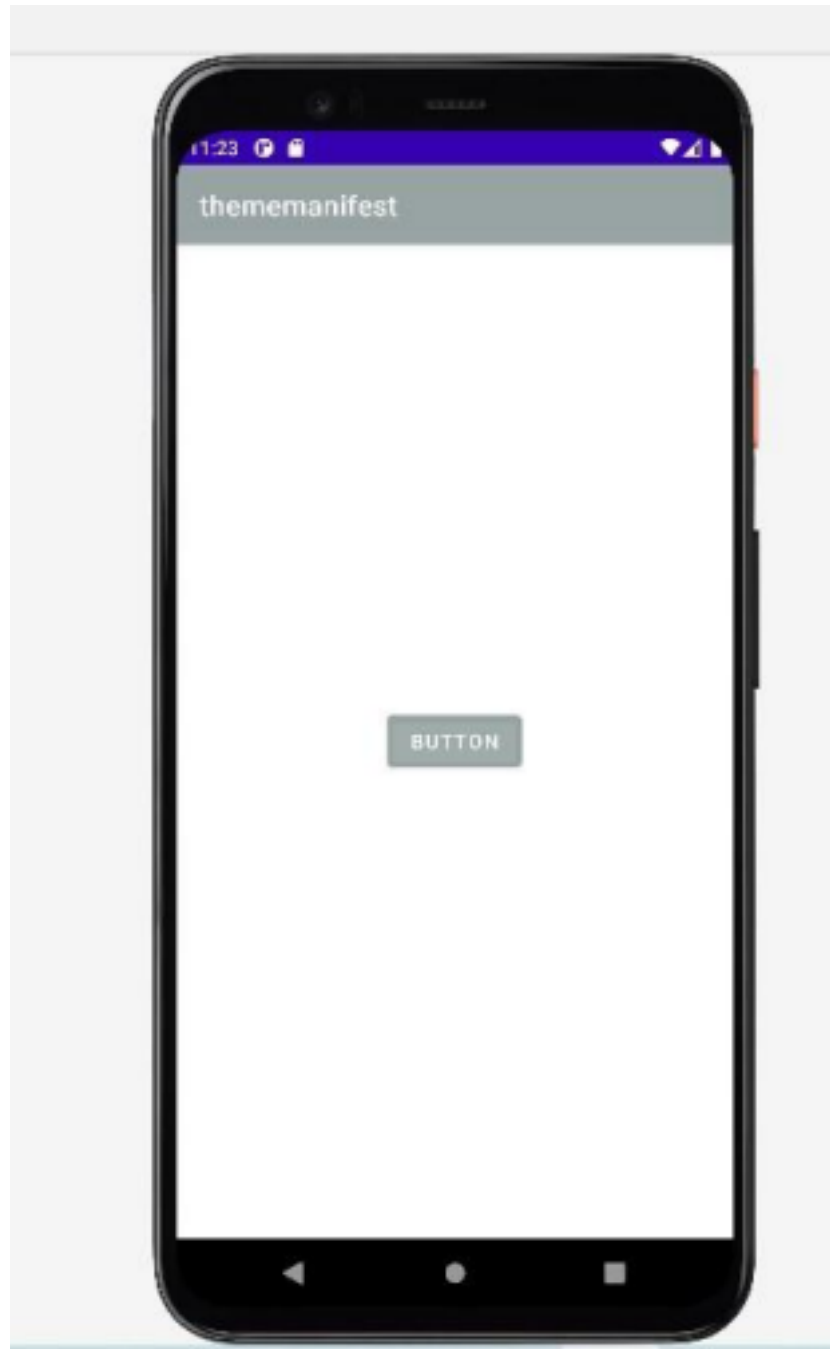
MainActivity.java	<pre>package com.example.thememanifest; import androidx.appcompat.app.AppCompatActivity; import android.content.Intent; import android.os.Bundle; import android.view.View; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); } public void click(View view) { Intent i=new Intent(this,MainActivity2.class); startActivity(i); } }</pre>
MainActivity2.java	<pre>package com.example.thememanifest; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; public class MainActivity2 extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main2); } }</pre>
activity_main.xml	<pre><?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/a ndroid" xmlns:app="http://schemas.android.com/apk/res-auto "</pre>

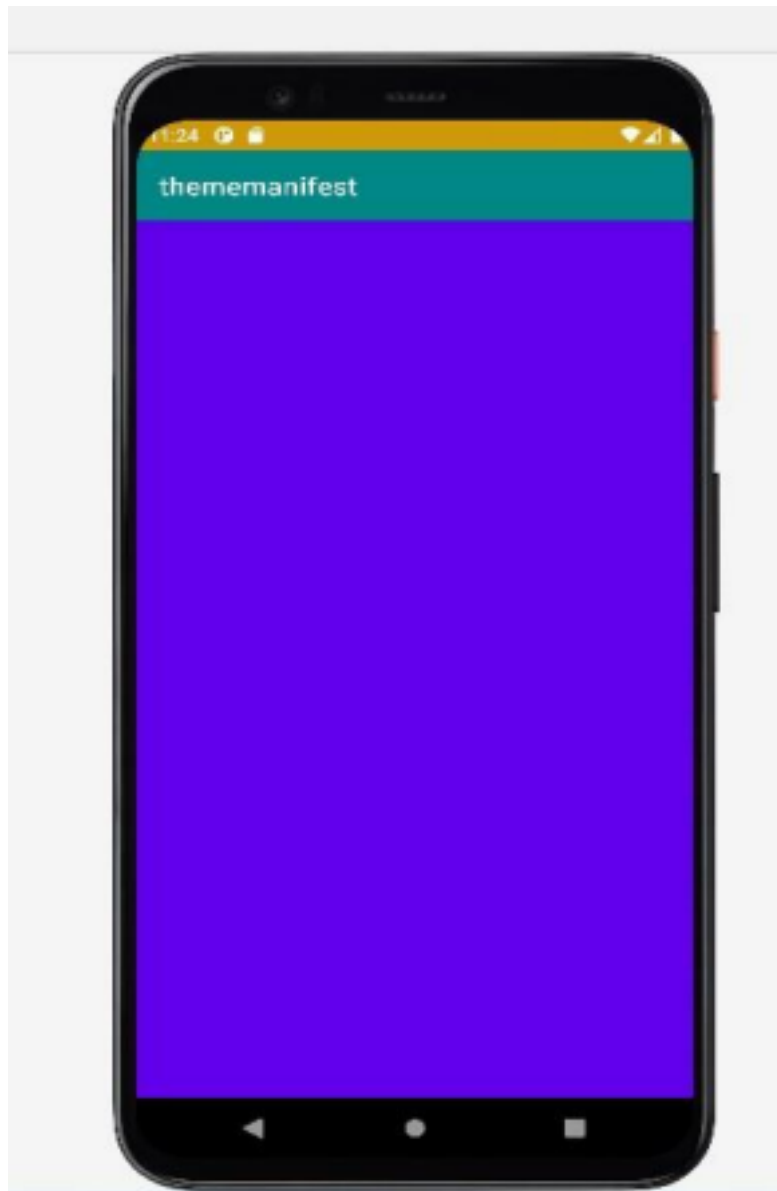
	<pre> xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity"> <Button android:id="@+id/button" android:layout_width="wrap_content" android:layout_height="wrap_content" android:layout_marginStart="158dp" android:layout_marginTop="341dp" android:layout_marginEnd="159dp" android:layout_marginBottom="342dp" android:onClick="click" android:text="Button" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
activity_main2.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res /android" xmlns:app="http://schemas.android.com/apk/res-aut o" xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity2"/> </pre>
theme.xml	<pre> <resources xmlns:tools="http://schemas.android.com/tools" > <!-- Base application theme. --> <style name="Theme.Thememanifest" parent="Theme.MaterialComponents.DayNight.DarkAct ionBar"> <!-- Primary brand color. --> <item name="colorPrimary">#C899</item> <item name="colorPrimaryVariant">@color/purple_700</ite m> <item name="colorOnPrimary">@color/white</item> <!-- Secondary brand color. --> <item name="colorSecondary">@color/teal_200</item> <item </pre>

	<pre>name="colorSecondaryVariant">@color/teal_700</item> <item name="colorOnSecondary">#D78666</item> <!-- Status bar color. --> <item name="android:statusBarColor" tools:targetApi="l">?attr/colorPrimaryVariant</item></pre>
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AndroidManifest.xml	<pre> <!-- Customize your theme here. --> </style> <style name="Theme.Thememanifest1" parent="Theme.MaterialComponents.DayNight.DarkAction Bar"> <!-- Primary brand color. --> <item name="colorPrimary">@color/teal_700</item> <item name="android:windowBackground">@color/purple_500</i tem> <item name="colorPrimaryVariant">#D09909</item> <item name="colorOnPrimary">@color/white</item> <!-- Secondary brand color. --> <item name="colorSecondary">@color/teal_200</item> <item name="colorSecondaryVariant">@color/purple_200</item> <item name="colorOnSecondary">#D54444</item> <!-- Status bar color. --> <item name="android:statusBarColor" tools:targetApi="l">?attr/colorPrimaryVariant</item> <!-- Customize your theme here. --> </style> </resources> <?xml version="1.0" encoding="utf-8"?> <manifest xmlns:android="http://schemas.android.com/apk/res/android" package="com.example.thememanifest"> <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/Theme.Thememanifest"> <activity android:name=".MainActivity2" android:theme="@style/Theme.Thememanifest1" android:exported="false" /> <activity android:name=".MainActivity" android:exported="true"> <intent-filter> <action android:name="android.intent.action.MAIN" /> <category android:name="android.intent.category.LAUNCHER" /> </intent-filter> </activity> </application> </manifest> </pre>
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OUTPUT





RESULT

Program has been successfully executed and output is obtained.

PROGRAM 4

AIM: Develop application using Fragments.

MainActivity.java	<pre>package com.example.fragment; import androidx.appcompat.app.AppCompatActivity; import androidx.fragment.app.Fragment; import androidx.fragment.app.FragmentManager; import androidx.fragment.app.FragmentTransaction; import android.os.Bundle; import android.view.View; import android.widget.Toast; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); } public void fragement1Start(View view){ replaceFragement(new Fragment1()); } public void fragement2Start(View view){ replaceFragement(new Fragment2()); } public void replaceFragement(Fragment pragment){ FragmentManager fm = getSupportFragmentManager(); FragmentTransaction ft = fm.beginTransaction(); ft.replace(R.id.fra,pragment); ft.commit(); } }</pre>
Fragment1.java	<pre>package com.example.fragment; import android.os.Bundle; import androidx.fragment.app.Fragment;</pre>

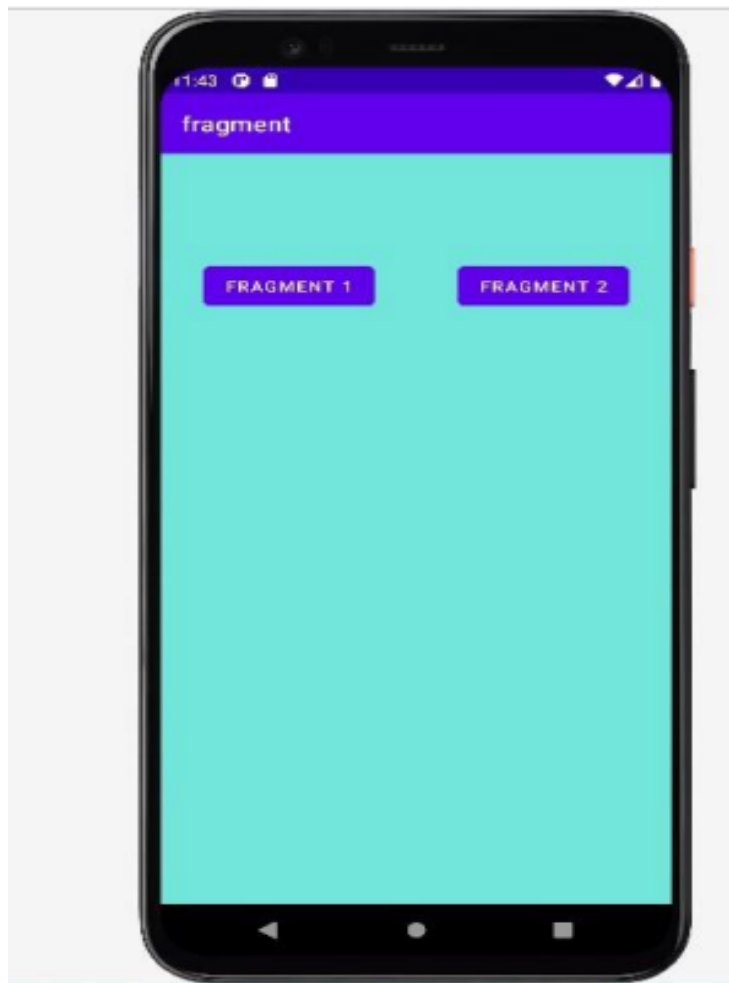
	<pre> import android.view.LayoutInflater; import android.view.View; import android.view.ViewGroup; public class Fragment1 extends Fragment { @Override public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) { // Inflate the layout for this fragment return inflater.inflate(R.layout.fragment_1, container, false); } } </pre>
Fragment2.java	<pre> package com.example.fragment; import android.os.Bundle; import androidx.fragment.app.Fragment; import android.view.LayoutInflater; import android.view.View; import android.view.ViewGroup; import android.os.Bundle; import androidx.fragment.app.Fragment; import android.view.LayoutInflater; import android.view.View; import android.view.ViewGroup; public class Fragment2 extends Fragment { @Override public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) { // Inflate the layout for this fragment return inflater.inflate(R.layout.fragment_2, container, false); } } </pre>

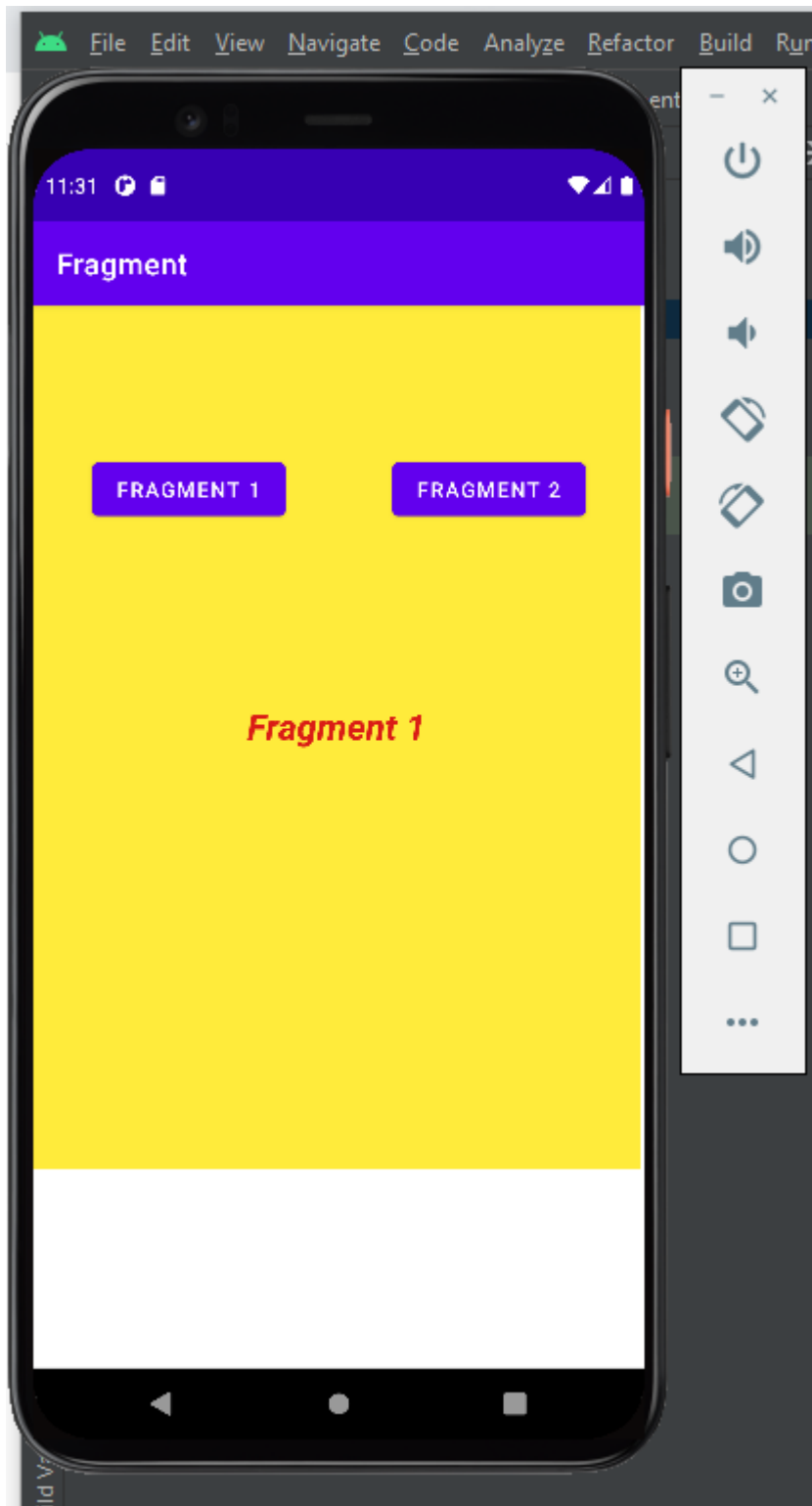
activity_main.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/an droid" xmlns:app="http://schemas.android.com/apk/res-aut o" xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent" android:layout_height="match_parent" android:background="#72E6DB" tools:context=".MainActivity"> <Button android:id="@+id/f2" android:layout_width="wrap_content" android:layout_height="wrap_content" android:layout_marginStart="32dp" android:layout_marginTop="100dp" android:onClick="fragment2Start" android:text="Fragment 2" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.5" app:layout_constraintStart_toEndOf="@+id/f1" app:layout_constraintTop_toTopOf="parent" /> <Button android:id="@+id/f1" android:layout_width="wrap_content" android:layout_height="wrap_content" android:layout_marginTop="100dp" android:onClick="fragment1Start" android:text="Fragment 1" app:layout_constraintEnd_toStartOf="@+id/f2" app:layout_constraintHorizontal_bias="0.5" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" /> <FrameLayout android:id="@+id/fra" android:layout_width="409dp" android:layout_height="581dp" android:backgroundTint="#FBDCD2" tools:layout_editor_absoluteX="2dp" tools:layout_editor_absoluteY="148dp"> </FrameLayout> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
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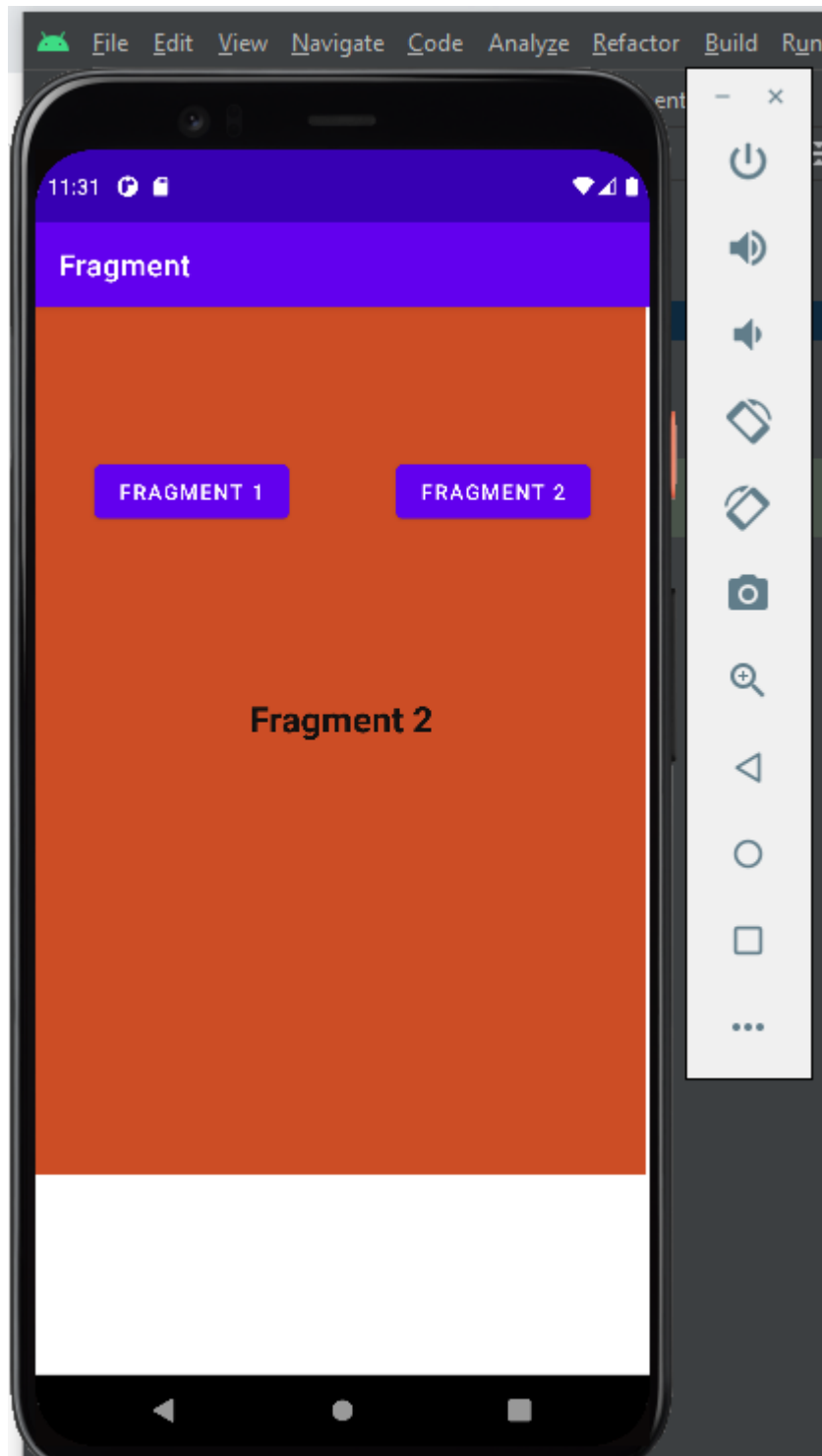
fragment_1.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:tools="http://schemas.android.com/tools" android:id="@+id/frameLayout2" android:layout_width="match_parent" android:layout_height="match_parent" android:background="#8D9822" tools:context=".Fragment1"> <TextView android:id="@+id/textView2" android:layout_width="154dp" android:layout_height="46dp" android:text="FRAGMENT 1" android:textAlignment="center" android:textColor="#0A123E" android:textSize="24sp" android:textStyle="bold italic" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.498" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.499" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
fragment_2.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.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:id="@+id/frameLayout" android:layout_width="match_parent" android:layout_height="match_parent" android:background="#F44336" tools:context=".Fragment2"> <!-- TODO: Update blank fragment layout --> <TextView android:id="@+id/textView" android:layout_width="153dp" android:layout_height="59dp" android:text="FRAGMENT 2" android:textAlignment="center" android:textColor="#121111" android:textSize="24sp" </pre>

	<pre>android:textStyle="bold" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" /> </androidx.constraintlayout.widget.ConstraintLayout></pre>
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OUTPUT







RESULT

Program has been successfully executed and output is obtained.

PROGRAM 5

AIM:Implement Navigation drawer.

MainActivity.java	<pre>package com.example.navigation; import android.os.Bundle; import android.view.View; import android.view.Menu; import com.google.android.material.snackbar.Snackbar; import com.google.android.material.navigation.NavigationVi ew; import androidx.navigation.NavController; import androidx.navigation.Navigation; import androidx.navigation.ui.AppBarConfiguration; import androidx.navigation.ui.NavigationUI; import androidx.drawerlayout.widget.DrawerLayout; import androidx.appcompat.app.AppCompatActivity; import com.example.navigation.databinding.ActivityMainBindi ng; public class MainActivity extends AppCompatActivity { private AppBarConfiguration mAppBarConfiguration; private ActivityMainBinding binding; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); binding = ActivityMainBinding.inflate(getLayoutInflater()) ; setContentView(binding.getRoot()); setSupportActionBar(binding.appBarMain.toolbar); binding.appBarMain.fab.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View view) { Snackbar.make(view, "Replace with your own action", Snackbar.LENGTH_LONG) .setAction("Action", null).show(); } }); DrawerLayout drawer = binding.drawerLayout;</pre>
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	<pre> NavigationView navigationView = binding.navView; // Passing each menu ID as a set of Ids because each // menu should be considered as top level destinations. mAppBarConfiguration = new AppBarConfiguration.Builder(</pre>
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	<pre> R.id.nav_home, R.id.nav_gallery, R.id.nav_slideshow,R.id.nav_contact) .setOpenableLayout(drawer) .build(); NavController navController = Navigation.findNavController(this, R.id.nav_host_fragment_content_main); NavigationUI.setupActionBarWithNavController(this, navController, mAppBarConfiguration); NavigationUI.setupWithNavController(navigationView, navController); } @Override public boolean onCreateOptionsMenu(Menu menu) { // Inflate the menu; this adds items to the action bar if it // is present. getMenuInflater().inflate(R.menu.main, // menu); return true; } @Override public boolean onSupportNavigateUp() { NavController navController = Navigation.findNavController(this, R.id.nav_host_fragment_content_main); return NavigationUI.navigateUp(navController, mAppBarConfiguration) super.onSupportNavigateUp(); } } </pre> <p>© 2022 GitHub, Inc. Terms Privacy</p>
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GalleryFragment.java	<pre>package com.example.fragment; import android.os.Bundle; import androidx.fragment.app.Fragment; import android.view.LayoutInflater; import android.view.View; import android.view.ViewGroup; public class Fragment1 extends Fragment { @Override public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) { // Inflate the layout for this fragment return inflater.inflate(R.layout.fragment_1, container, false); }}</pre>
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	<pre> binding = FragmentHomeBinding.inflate(inflater, container, false); View root = binding.getRoot(); final TextView textView = binding.textHome; homeViewModel.getText().observe(getViewLifecycleOwner(), textView::setText); return root; } @Override public void onDestroyView() { super.onDestroyView(); binding = null; } } </pre>
HomeViewModel.java	<pre> package com.example.navigation.ui.home; import androidx.lifecycle.LiveData; import androidx.lifecycle.MutableLiveData; import androidx.lifecycle.ViewModel; public class HomeViewModel extends ViewModel { private final MutableLiveData<String> mText; public HomeViewModel() { mText = new MutableLiveData<>(); mText.setValue("This is home fragment"); } public LiveData<String> getText() { return mText; } } </pre>
SlideshowFragment.java	<pre> package com.example.navigation.ui.slideshow; import android.os.Bundle; import android.view.LayoutInflater; import android.view.View; import android.view.ViewGroup; import android.widget.TextView; import androidx.annotation.NonNull; import androidx.fragment.app.Fragment; import androidx.lifecycle.ViewModelProvider; import com.example.navigation.databinding.FragmentSlideshowBinding; </pre>

	<pre> public class SlideshowFragment extends Fragment { private FragmentSlideshowBinding binding; public View onCreateView(@NonNull LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) { SlideshowViewModel slideshowViewModel = new ViewModelProvider(this).get(SlideshowViewModel.class); binding = FragmentSlideshowBinding.inflate(inflater, container, false); View root = binding.getRoot(); final TextView textView = binding.textSlideshow; slideshowViewModel.getText().observe(getViewLifecycleOwner(), textView::setText); return root; } @Override public void onDestroyView() { super.onDestroyView(); binding = null; } } </pre>
SlideshowViewModel.java	<pre> package com.example.navigation.ui.slideshow; import androidx.lifecycle.LiveData; import androidx.lifecycle.MutableLiveData; import androidx.lifecycle.ViewModel; public class SlideshowViewModel extends ViewModel { private final MutableLiveData<String> mText; public SlideshowViewModel() { mText = new MutableLiveData<>(); mText.setValue("This is slideshow fragment"); } public LiveData<String> getText() { return mText; } } </pre>

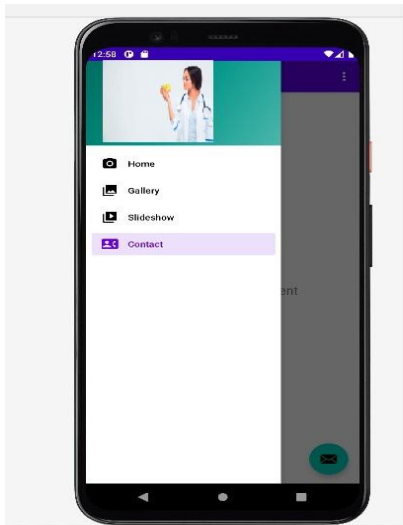
	}
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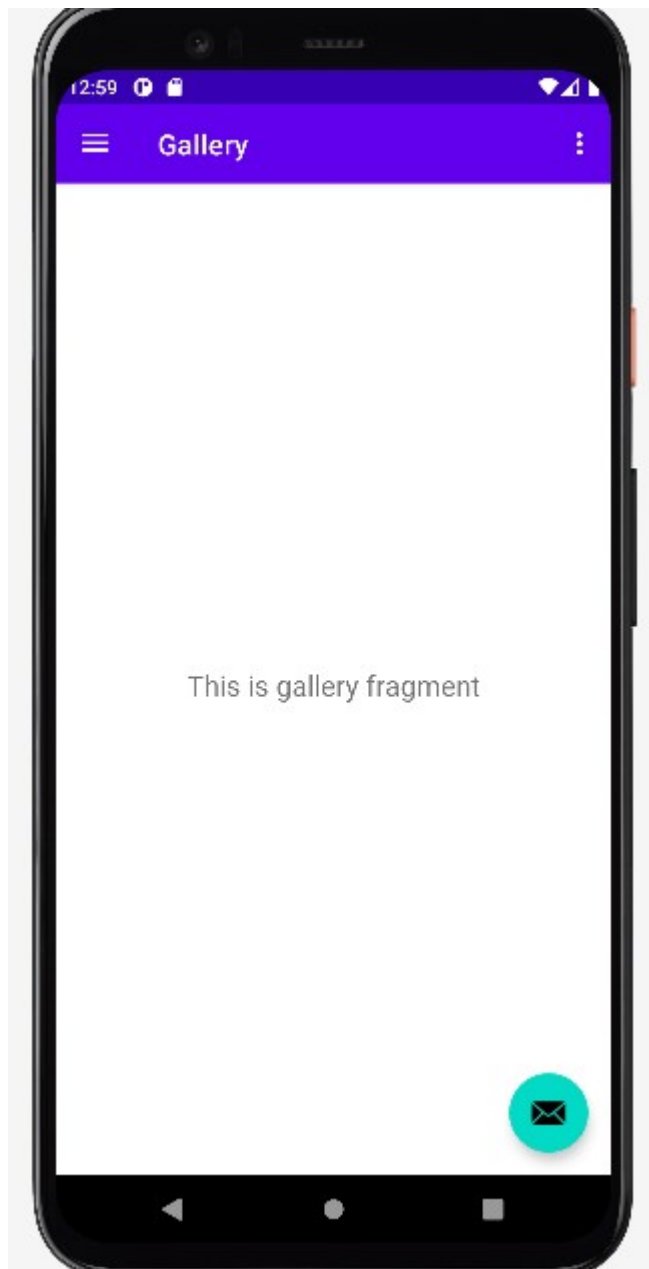
activity_main.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.drawerlayout.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:tools="http://schemas.android.com/tools" android:id="@+id/drawer_layout" android:layout_width="match_parent" android:layout_height="match_parent" android:fitsSystemWindows="true" tools:openDrawer="start"> <include android:id="@+id/app_bar_main" layout="@layout/app_bar_main" android:layout_width="match_parent" android:layout_height="match_parent" /> <com.google.android.material.navigation.Navigation View android:id="@+id/nav_view" android:layout_width="wrap_content" android:layout_height="match_parent" android:layout_gravity="start" android:fitsSystemWindows="true" app:headerLayout="@layout/nav_header_main" app:menu="@menu/activity_main_drawer" /> </androidx.drawerlayout.widget.DrawerLayout> </pre>
fragment_gallery.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.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" tools:context=".ui.gallery.GalleryFragment"> <TextView android:id="@+id/text_gallery" android:layout_width="match_parent" android:layout_height="wrap_content" android:layout_marginStart="8dp" </pre>

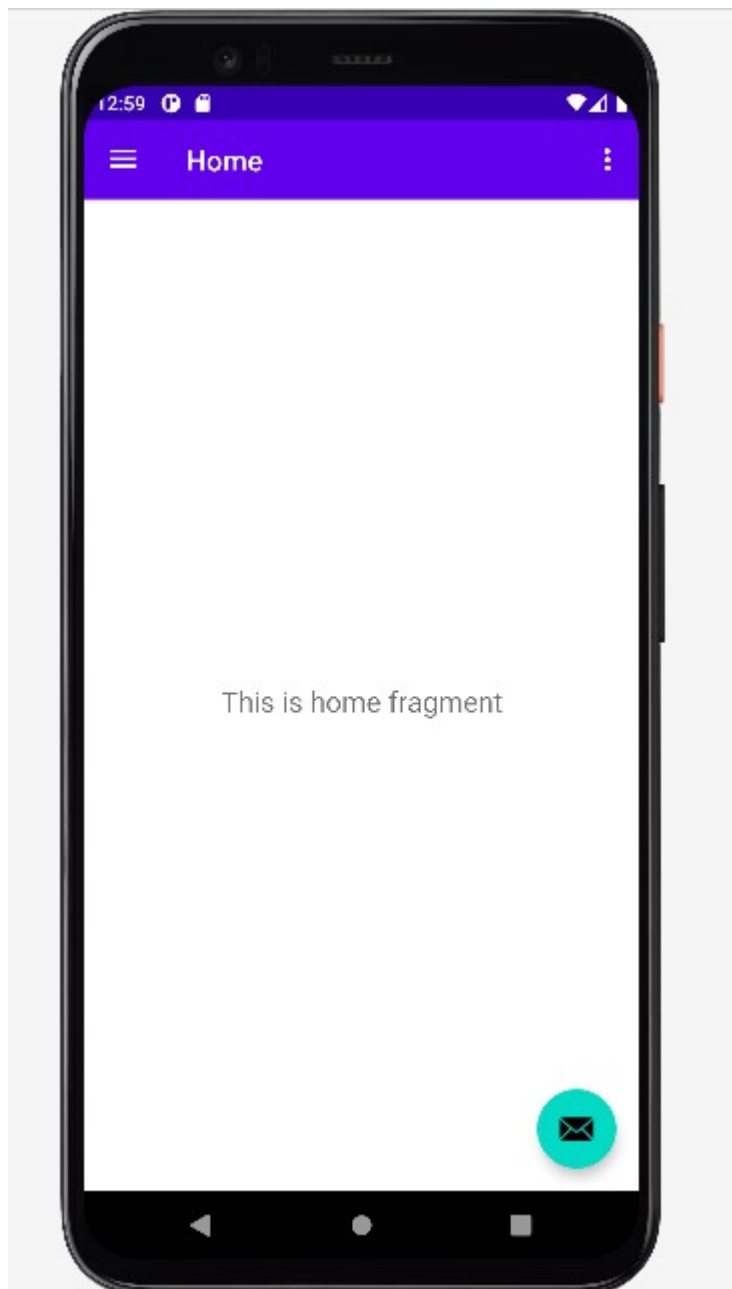
	<pre> android:layout_marginTop="8dp" android:layout_marginEnd="8dp" android:textAlignment="center" android:textSize="20sp" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
fragment_contact.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.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" tools:context=".ui.contact.contact_Fragment"> <TextView android:id="@+id/text_contact" android:layout_width="match_parent" android:layout_height="wrap_content" android:layout_marginStart="8dp" android:layout_marginTop="8dp" android:layout_marginEnd="8dp" android:textAlignment="center" android:textSize="20sp" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
fragment_home.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.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" tools:context=".ui.home.HomeFragment"> <TextView android:id="@+id/text_home" android:layout_width="match_parent" </pre>

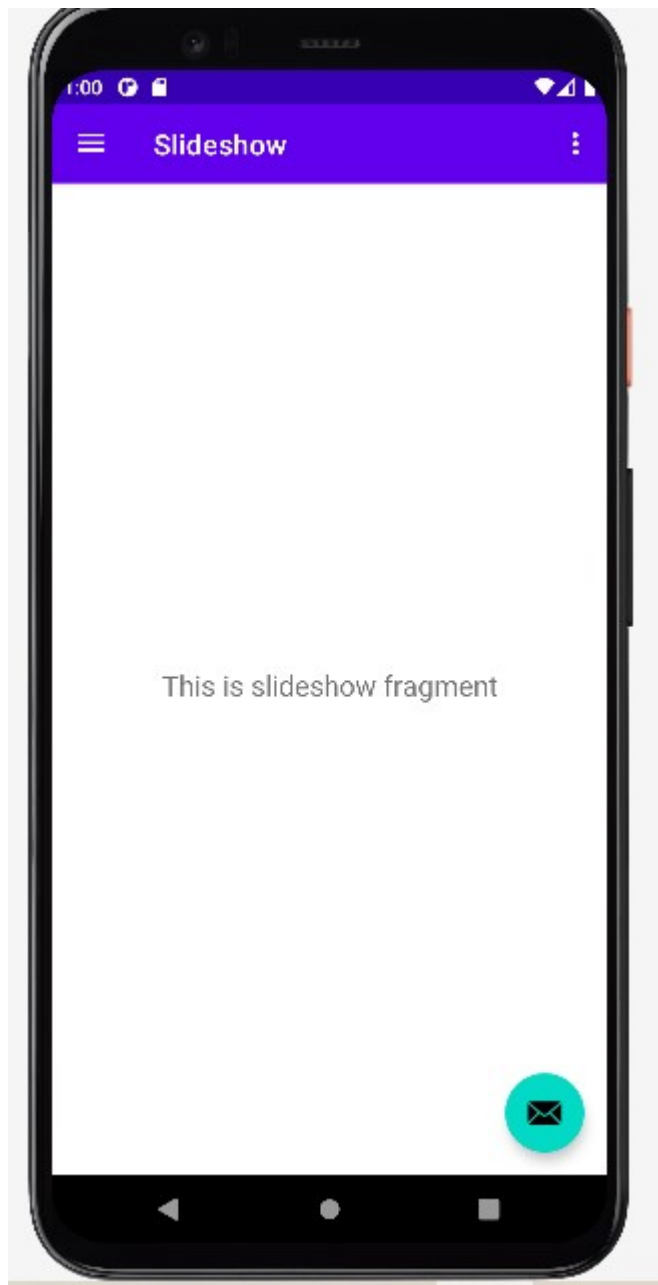
	<pre> android:layout_height="wrap_content" android:layout_marginStart="8dp" android:layout_marginTop="8dp" android:layout_marginEnd="8dp" android:textAlignment="center" android:textSize="20sp" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
fragment_slideshow.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.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" tools:context=".ui.slideshow.SlideshowFragment"> <TextView android:id="@+id/text_slideshow" android:layout_width="match_parent" android:layout_height="wrap_content" android:layout_marginStart="8dp" android:layout_marginTop="8dp" android:layout_marginEnd="8dp" android:textAlignment="center" android:textSize="20sp" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>

OUTPUT









RESULT

Program has been successfully executed and output is obtained.