

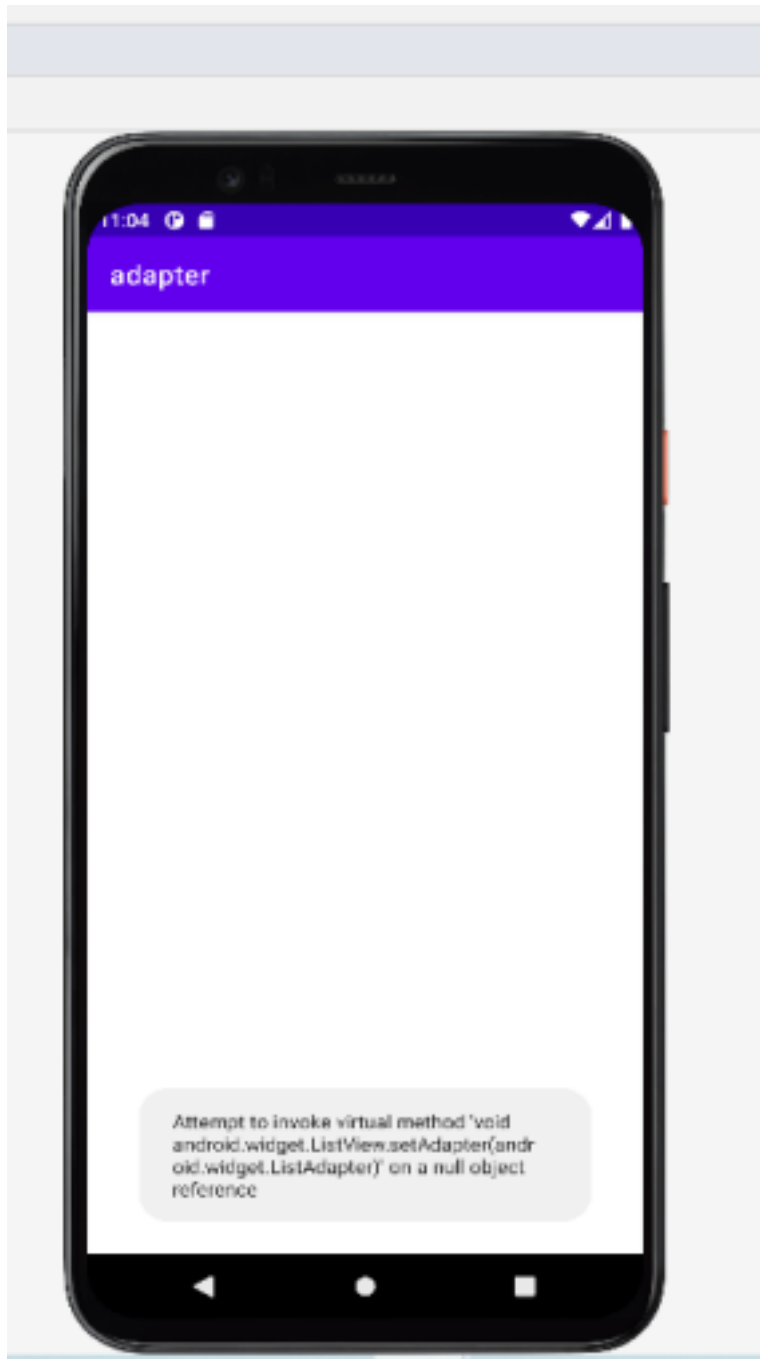
COURSE OUTCOME 3

PROGRAM -1

AIM: Implement Adapters and perform exception handling.

MainActivity.java	<pre>package com.example.adapter; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.widget.ArrayAdapter; import android.widget.ListView; import android.widget.Toast; public class MainActivity extends AppCompatActivity { ListView lv ; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); try { String[] actor = new String[]{"mohanlal", "mammootty", "jayasurya", "asif ali", "pranav", "nivin paully", "tovino", "vineeth", "dulkar", "fahad"}; ArrayAdapter<String> arrayAdapter = new ArrayAdapter(MainActivity.this, android.R.layout.simple_list_item_1, actor); lv.setAdapter(arrayAdapter); } catch(Exception e){ Toast.makeText(this,e.getMessage(),Toast.LENGTH_SHORT).show (); }}}}</pre>
activity_main.xml	<pre><?xml version="1.0" encoding="utf-8"?> <RelativeLayout 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=".MainActivity"> <ListView android:id="@+id/list" android:layout_width="match_parent" android:layout_height="match_parent" /> </RelativeLayout></pre>

OUTPUT



RESULT

Program has been successfully executed and output is obtained.

PROGRAM 2

AIM: Implement Intent to navigate between multiple activities.

MainActivity.java	<pre>package com.example.explicitintent; import androidx.appcompat.app.AppCompatActivity; import android.content.Intent; import android.os.Bundle; import android.text.TextUtils; import android.util.Patterns; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.Toast; import java.util.Objects; public class MainActivity extends AppCompatActivity { EditText Name; EditText address; EditText email; Button Submit; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); Name = findViewById(R.id.name); address = findViewById(R.id.address); email = findViewById(R.id.email); Submit = findViewById(R.id.button); } public void callSecondActivity(View view) { Intent i = new Intent(getApplicationContext(), MainActivity2.class); String str = "Name : " + Name.getText().toString(); i.putExtra("Value1", str); String str1 = "Address : " + address.getText().toString(); i.putExtra("Value2", str1);</pre>
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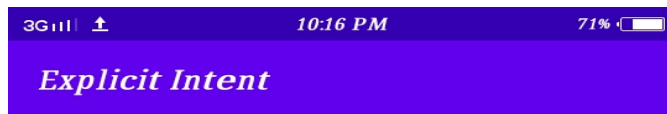
	<pre> String str2 = "Email : "+ email.getText().toString(); i.putExtra("Value3", str2); startActivity(i); } } </pre>
MainActivity2.java	<pre> package com.example.explicitintent; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.content.Intent; import android.view.View; import android.widget.TextView; import android.widget.Toast; public class MainActivity2 extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { TextView t1; TextView t2; TextView t3; super.onCreate(savedInstanceState); setContentView(R.layout.activity_main2); t1 = (TextView) findViewById(R.id.t1); t2 = (TextView) findViewById(R.id.t2); t3 = (TextView) findViewById(R.id.t3); // create the get Intent object Intent intent = getIntent(); // receive the value by getStringExtra() method // and key must be same which is send by first activity String str = intent.getStringExtra("Value1"); String str1 = intent.getStringExtra("Value2"); String str2 = intent.getStringExtra("Value3"); // display the string into textView t1.setText(str); t2.setText(str1); t3.setText(str2); } } </pre>

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:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity"> <EditText android:id="@+id/name" android:layout_width="wrap_content" android:layout_height="wrap_content" android:ems="10" android:hint="Name" android:inputType="textPersonName" android:minHeight="48dp" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.437" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.148" /> <EditText android:id="@+id/address" android:layout_width="wrap_content" android:layout_height="wrap_content" android:ems="10" android:hint="Address" android:inputType="textPersonName" android:minHeight="48dp" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.437" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.313" /> <EditText android:id="@+id/email" android:layout_width="wrap_content" </pre>
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	<pre> android:layout_height="wrap_content" android:ems="10" android:hint="Email" android:inputType="textPersonName" android:minHeight="48dp" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.437" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.475" /> <Button android:id="@+id/button" android:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Submit" android:onClick="callSecondActivity" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.461" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.654" /> </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-auto" xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity2"> <TextView android:id="@+id/t1" android:layout_width="312dp" android:layout_height="73dp" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.517" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.387" /> <TextView android:id="@+id/t2" android:layout_width="309dp" android:layout_height="77dp" </pre>

	<pre>app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.509" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.559" /> <TextView android:id="@+id/t3" android:layout_width="313dp" android:layout_height="70dp" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.728" /> </androidx.constraintlayout.widget.ConstraintLayout></pre>
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OUTPUT

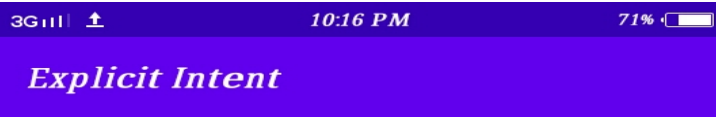


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SUBMIT



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RESULT

Program has been successfully executed and output is obtained.

PROGRAM 3

AIM: Develop an application that works with explicit intents.

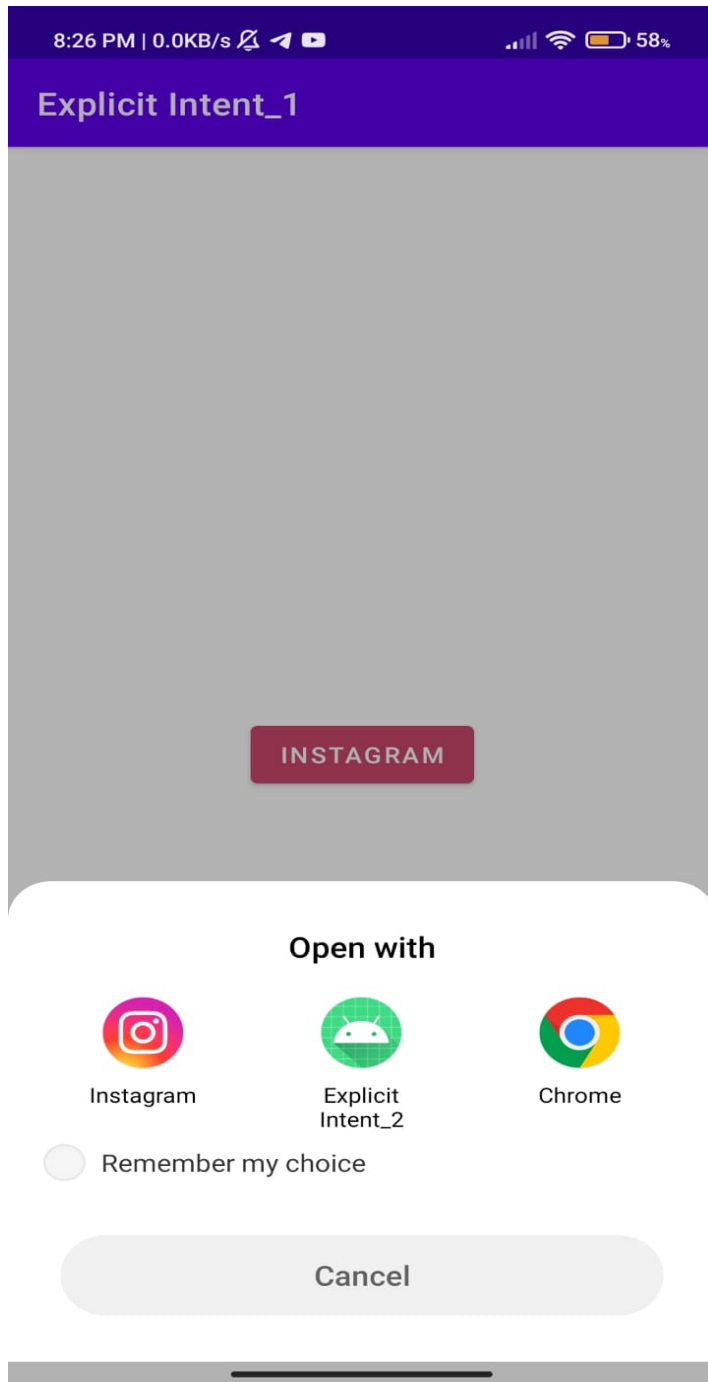
MainActivity.java	<pre>package com.example.explicitintent_1; import androidx.appcompat.app.AppCompatActivity; import android.content.Intent; import android.net.Uri; import android.os.Bundle; import android.view.View; import android.widget.Toast; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); } public void onClick(View view) { Intent i = new Intent(Intent.ACTION_VIEW); i.setData(Uri.parse("https://business.instagram.com")); startActivity(i); } }</pre>
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MainActivity2.java	<pre>package com.example.explicitintent_2; import androidx.appcompat.app.AppCompatActivity; import android.content.Intent; import android.net.Uri; import android.os.Bundle; import android.webkit.WebView; import android.webkit.WebViewClient; import android.widget.Toast; import java.net.URL; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); Intent i = getIntent(); Uri uri = i.getData(); URL pageurl = null; if(uri !=null){ try{ pageurl = new URL(uri.getScheme(),uri.getHost(),uri.getPath()); } catch (Exception e) { Toast.makeText(getApplicationContext(),"Error",Toast.LENGTH_ LONG).show(); } } WebView wb =(WebView) findViewById(R.id.webvi); wb.setWebViewClient(new WebViewClient()); wb.loadUrl(String.valueOf(pageurl)); } }</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:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity"> <WebView android:id="@+id/webvi" android:layout_width="409dp" android:layout_height="729dp" android:layout_marginStart="1dp" android:layout_marginTop="1dp" android:layout_marginEnd="1dp" android:layout_marginBottom="1dp" 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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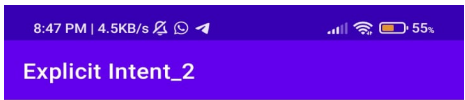
activity_main2.xml	<pre><?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity"> <WebView android:id="@+id/webvi" android:layout_width="409dp" android:layout_height="729dp" android:layout_marginStart="1dp" android:layout_marginTop="1dp" android:layout_marginEnd="1dp" android:layout_marginBottom="1dp" 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





INSTAGRAM



 Instagram



RESULT

Program has been successfully executed and output is obtained.

PROGRAM 4

AIM: Implement Options Menu to navigate to activities.

MainActivity.java	<pre>package com.example.option; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import androidx.annotation.NonNull; import android.content.Intent; import android.view.Menu; import android.view.MenuInflater; import android.view.MenuItem; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); } @Override public boolean onCreateOptionsMenu(Menu menu) { MenuInflater i= getMenuInflater(); i.inflate(R.menu.menu_option,menu); return true; // return super.onCreateOptionsMenu(menu); } @Override public boolean onOptionsItemSelected(@NonNull MenuItem item) { int id=item.getItemId(); if(id==R.id.action_contact) { Intent contactintent=new Intent(MainActivity.this,contact.class); startActivity(contactintent); } if(id==R.id.action_settings) { Intent settingsintent=new</pre>
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contact.java	<pre> Intent(MainActivity.this,settings.class); startActivity(settingsintent); } if (id==R.id.action_help) { Intent helpintent=new Intent(MainActivity.this,help.class); startActivity(helpintent); } if(id==R.id.action_share) { Intent shareintent=new Intent(MainActivity.this,share.class); startActivity(shareintent); } return super.onOptionsItemSelected(item); } } package com.example.option; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; public class contact extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_contact); } } </pre>
help.java	<pre> package com.example.option; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; public class help extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); </pre>

	<pre> setContentView(R.layout.activity_help); } }</pre>
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settings.java	<pre> package com.example.option; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; public class settings extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_settings); } }</pre>
share.java	<pre> package com.example.option; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; public class share extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_share); } }</pre>

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:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity"> <TextView android:id="@+id/textView" </pre>
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	<pre> android:layout_width="197dp" android:layout_height="84dp" android:text="Welcome to this page" 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_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=".contact"> <TextView android:id="@+id/textView2" android:layout_width="172dp" android:layout_height="45dp" android:text="Contact" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.439" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.294" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>

activity_help.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=".help"> <TextView android:id="@+id/textView2" android:layout_width="172dp" android:layout_height="45dp" android:text="Help" app:layout_constraintBottom_toBottomOf="parent" </pre>
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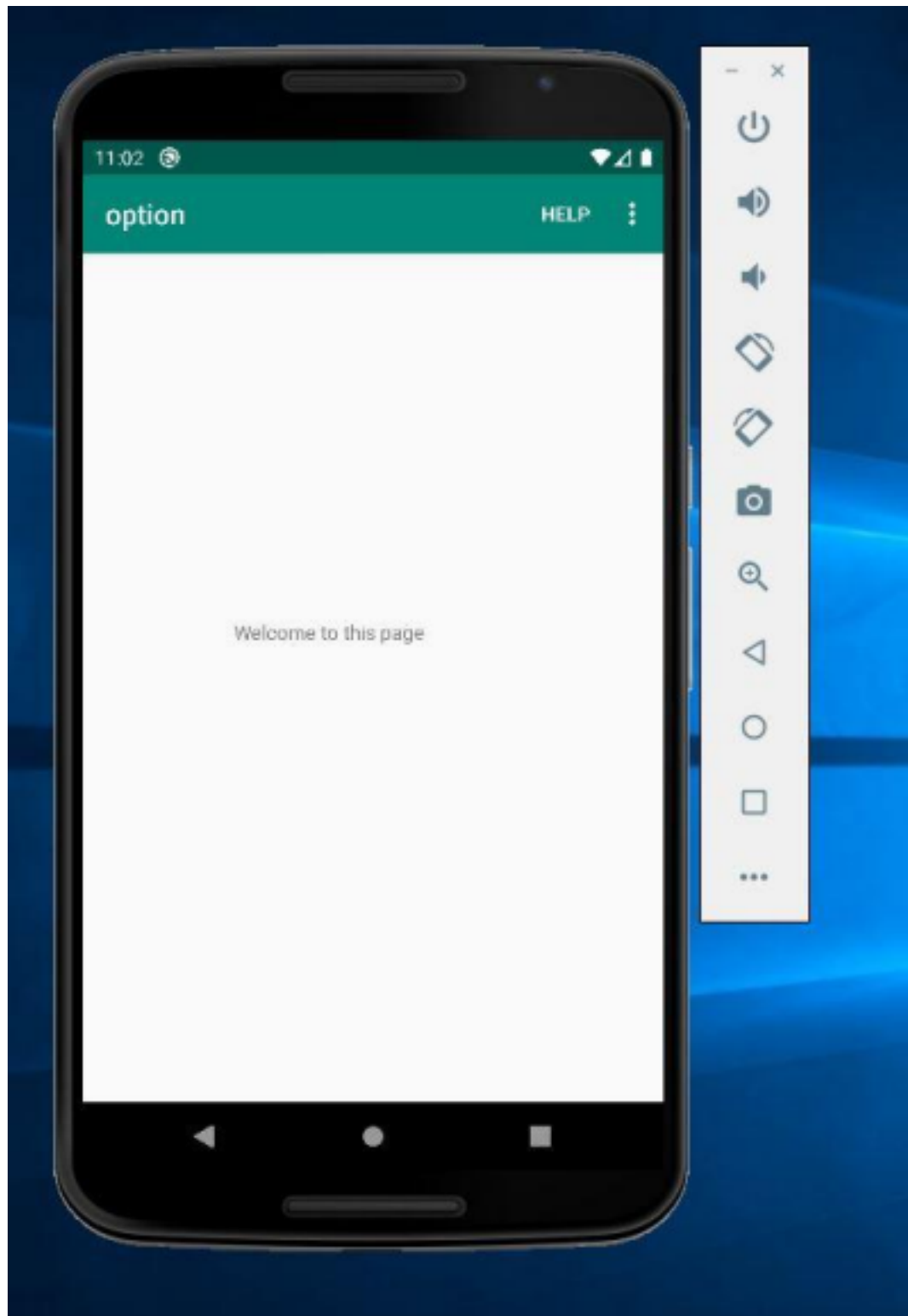
	<pre> app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.439" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.294" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
activity_settings.xml	<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=".settings"> <TextView android:id="@+id/textView2" android:layout_width="172dp" android:layout_height="45dp" android:text="Settings" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.439" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.294" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>

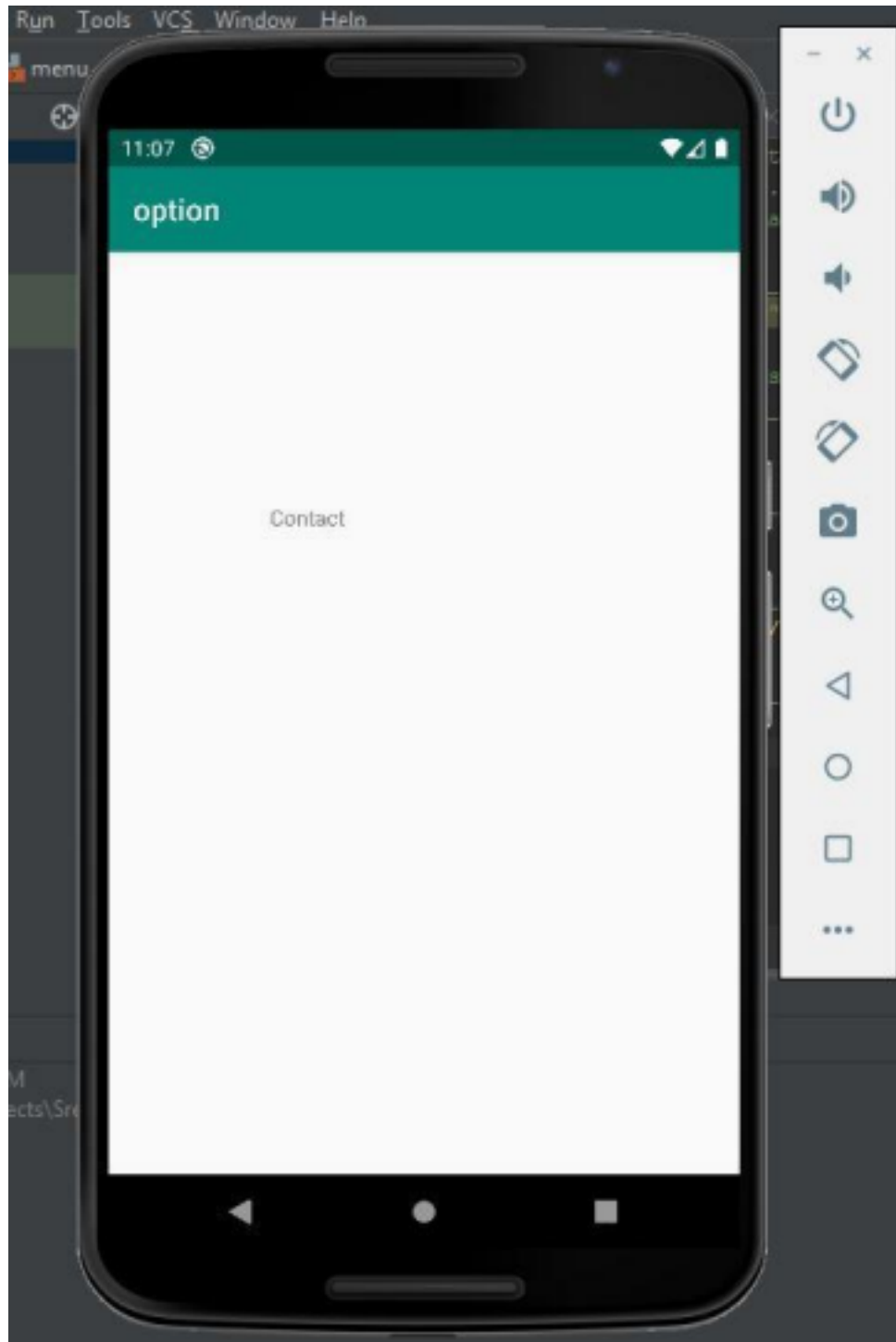
activity_share.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent" android:layout_height="match_parent" tools:context=".share"> <TextView android:id="@+id/textView2" android:layout_width="172dp" android:layout_height="45dp" android:text="Share" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.439" app:layout_constraintStart_toStartOf="parent" </pre>
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	<pre> app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.294" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
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menu_option.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <menu xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:android="http://schemas.android.com/apk/res/android"> <item android:id="@+id/action_settings" android:title="settings"/> <item app:showAsAction="always" android:id="@+id/action_help" android:title="help"/> <item android:id="@+id/action_home" android:title="home"/> <item android:id="@+id/action_contact" android:title="contact"/> <item android:id="@+id/action_share" android:title="share"/> </menu> </pre>
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OUTPUT





RESULT

Program has been successfully executed and output is obtained.

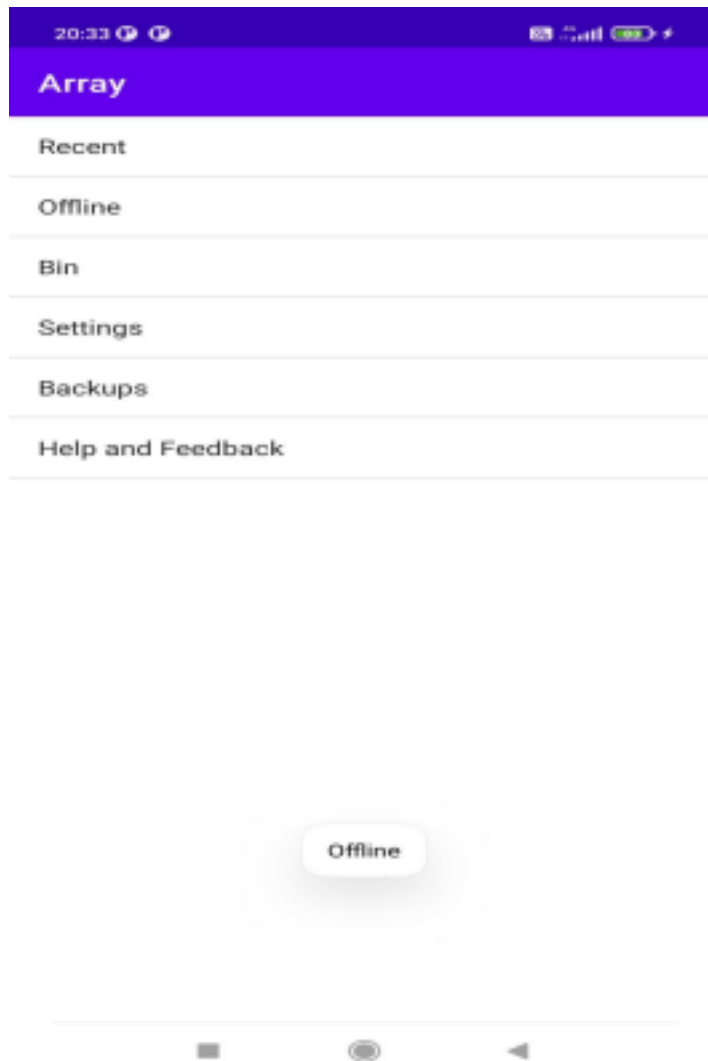
PROGRAM 5

AIM: Develop an application that uses ArrayAdapter with ListView.

MainActivity.java	<pre>package com.example.array; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.view.View; import android.widget.ListView; import android.widget.AdapterView; import android.widget.ArrayAdapter; import android.widget.Toast; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); ListView list=findViewById(R.id.listview); String[] item=new String[] {"Recent", "Offline", "Bin", "Settings", "Backups", "Help and Feedback"}; ArrayAdapter<String> myAdapter=new ArrayAdapter<String>(MainActivity.this, android.R.layout.simple_list_item_1,item); list.setAdapter(myAdapter); list.setOnItemClickListener(new AdapterView.OnItemClickListener() { @Override public void onItemClick(AdapterView<?> parent,View view,int position,long id) { String item_name=item[position]; Toast.makeText(MainActivity.this,item_name, Toast.LENGTH_SHORT).show(); } }); } }</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:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity"> <ListView android:id="@+id/listview" android:layout_width="409dp" android:layout_height="729dp" tools:layout_editor_absoluteX="1dp" tools:layout_editor_absoluteY="1dp" tools:ignore="MissingConstraints" /> </androidx.constraintlayout.widget.ConstraintLayout></pre>
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OUTPUT



RESULT

Program has been successfully executed and output is obtained.