
COURSE OUTCOME 3

PROGRAM 9

AIM: Implement Adapters and perform exception handling

PROGRAM CODE

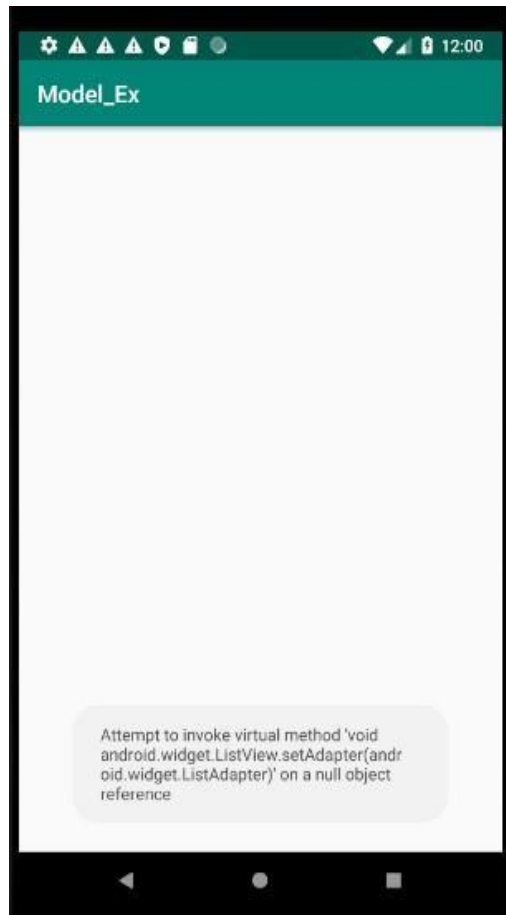
JAVA CODE

```
package com.example.sample;
import
androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import
android.widget.ListView;
import
android.widget.AdapterView;
import
android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity
{
    ListView list;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        try {
            //ListView list = findViewById(R.id.listview);
            String[] item = new String[]{"Siddharth malhothra", "Varun
dhawan", "Ranveer singh", "Ranbir kapoor", "Shahid kapoor",
"Jonh abraham", "Salman Khan", "Abhishek Mohan", "Dulquer",
"Saif Ali Khan"};
            ArrayAdapter<String> myAdapter = new
ArrayAdapter<String>(MainActivity.this,
android.R.layout.simple_list_item_1, item);
            list.setAdapter(myAdapter);
        }
        catch(Exception e)
        {
            Toast.makeText(this,e.getMessage(
), Toast.LENGTH_SHORT).show();
        }
    }
}
```

XML CODE	<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/to ols" android:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity"> <ListView android:id="@+id/listview" android:layout_width="368d p" android:layout_height="495d p" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.372" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.361" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
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OUTPUT



RESULT: The above program is successfully executed and obtained the output

PROGRAM 10

AIM: Implement Intent to navigate between multiple activities

PROGRAM CODE

JAVA CODE	<pre>package com.example.intent1; import androidx.appcompat.app.AppCompatActivity; import android.content.Intent; import android.net.Uri; 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 onClick(View view) { Intent i = new Intent(Intent.ACTION_VIEW); i.setData(Uri.parse("https://www.linkedin.com")) ; startActivity(i); }</pre>
XML CODE	<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" android:background="#EAE5E5" android:backgroundTint="#F8F2F2" tools:context=".MainActivity"> <Button android:id="@+id/button" android:layout_width="308dp"</pre>

	<pre> android:layout_height="50dp" android:backgroundTint="#673AB7" android:onClick="onClick" android:text="LinkedIn" android:textAllCaps="false" android:textSize="24sp" android:textStyle="bold" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.592" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.461" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
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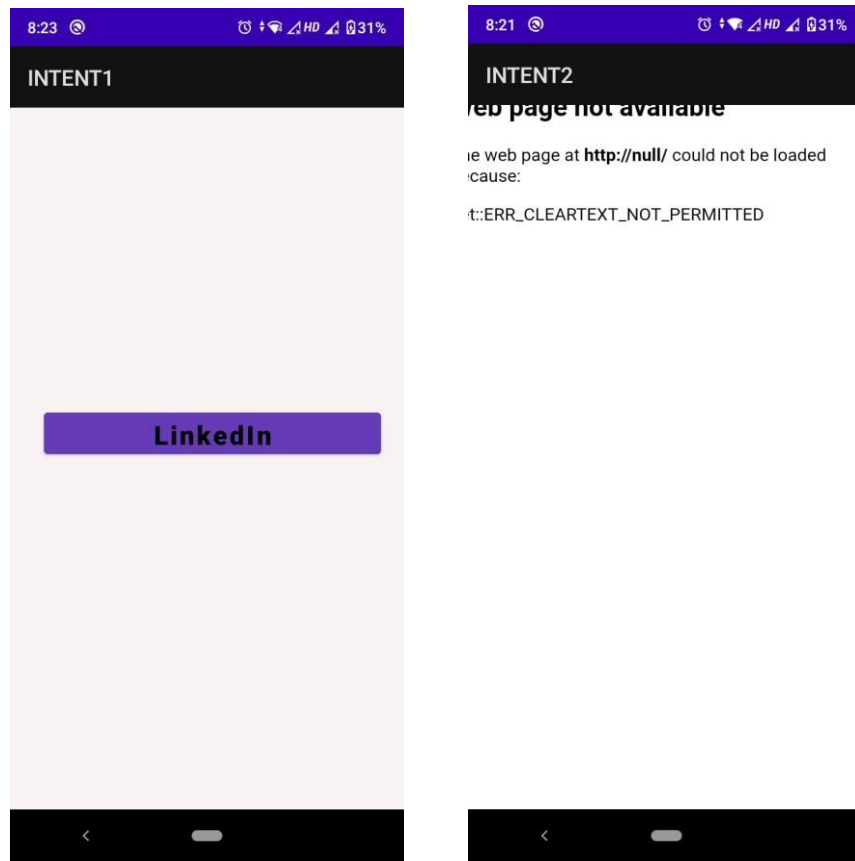
INTENT 2

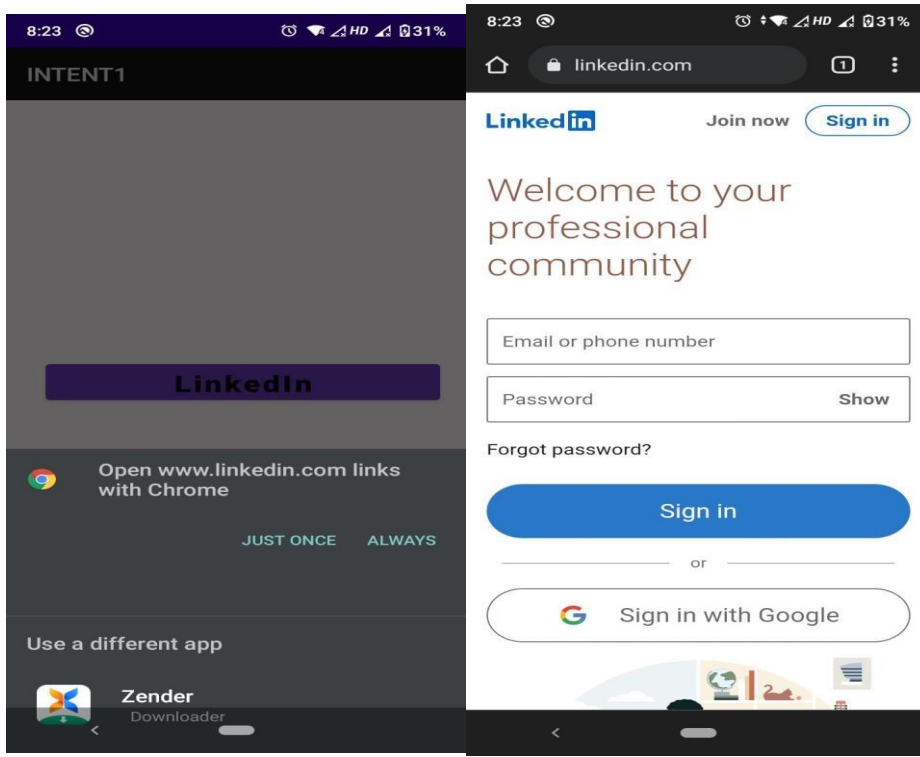
MainActivity.java	<pre> package com.example.intent2; import androidx.appcompat.app.AppCompatActivity; import android.content.Intent; import android.net.Uri; import android.os.Bundle; import android.webkit.WebView; import android.webkit.WebViewClient; import android.widget.Toast; import java.net.URL; 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 </pre>
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	<pre> Occured",Toast.LENGTH_LONG).show(); } } WebView web =(WebView) findViewById(R.id.webview); web.setWebViewClient(new WebViewClient()); web.loadUrl(String.valueOf(pageurl)); } } </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"> <WebView android:id="@+id/webview" 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>
AndroidManifest.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <manifest xmlns:android="http://schemas.android.com/apk/res/android" xmlns:tools="http://schemas.android.com/tools" package="com.example.intent2"> <uses-permission android:name="android.permission.INTERNET"></uses-permission> <application android:allowBackup="true" android:icon="@mipmap/ic_launcher" android:label="@string/app_name" android:roundIcon="@mipmap/ic_launcher_round" android:supportRtl="true" android:theme="@style/Theme.INTENT2"> <activity </pre>

	<pre> android:name=".MainActivity" android:exported="true"> <intent-filter tools:ignore ="AppLinkUrlError"> <action android:name="android.intent.action.VIEW" /> <category android:name="android.intent.category.DEFAULT" /> </intent-filter> </activity> </application> </manifest></pre>
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OUTPUT





RESULT: The above program is successfully executed and obtained the output

PROGRAM 11

AIM: Develop application that works with explicit intents.

PROGRAM CODE

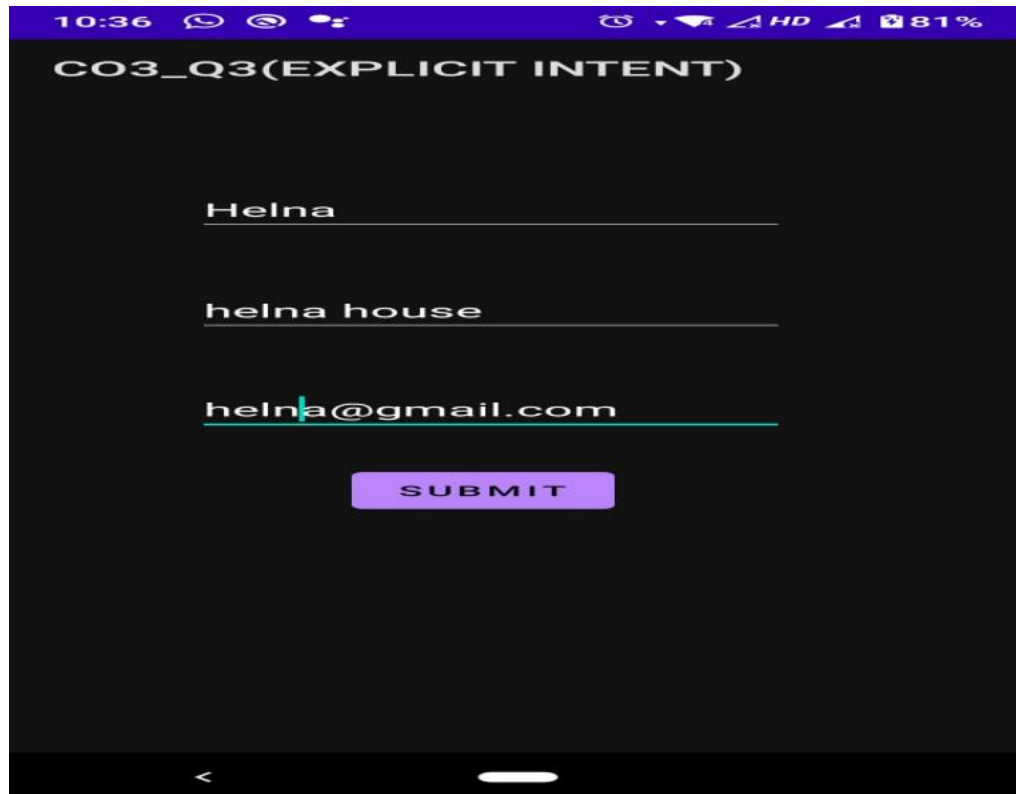
MainActivity.java	<pre>package com.example.co3_q3explicitintent; import androidx.appcompat.app.AppCompatActivity; import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.EditText; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); } public void callActivity(View view) { Intent i = new Intent(getApplicationContext(), MainActivity2.class); final EditText editText1 = (EditText)findViewById(R.id.name); String msg = editText1.getText().toString(); final EditText editText2 = (EditText)findViewById(R.id.address); String add = editText2.getText().toString(); final EditText editText3 = (EditText)findViewById(R.id.email); String em = editText3.getText().toString(); i.putExtra("Value1", msg); i.putExtra("Value2", add); i.putExtra("Value3", em); startActivity(i); } }</pre>
XML CODE	<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"</pre>

	<pre> android:onClick="callActivity" 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" 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" 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" android:layout_height="wrap_content" android:ems="10" android:hint="Email" android:inputType="textPersonName" android:onClick="callActivity" 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" /> </pre>
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	<pre> <Button android:id="@+id/button" android:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Submit" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.454" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.609" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
MainActivity2. java	<pre> package com.example.co3_q3explicitintent; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.widget.TextView; public class MainActivity2 extends AppCompatActivity { TextView view1; TextView view2; TextView view3; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main2); view1 = (TextView) findViewById(R.id.view1); view2 = (TextView) findViewById(R.id.view2); view3 = (TextView) findViewById(R.id.view3); Bundle extras = getIntent().getExtras(); String value1 = extras.getString("Value1"); String value2 = extras.getString("Value2"); String value3 = extras.getString("Value3"); view1.setText(value1); view2.setText(value2); view3.setText(value3); } } </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" </pre>

	<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" tools:context=".MainActivity2"> <TextView android:id="@+id/view3" android:layout_width="189dp" android:layout_height="36dp" android:textAlignment="center" " app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.459" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.398" /> <TextView android:id="@+id/view1" android:layout_width="189dp" android:layout_height="36dp" android:textAlignment="center" " app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.459" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.22" /> <TextView android:id="@+id/view2" android:layout_width="189dp" android:layout_height="36dp" android:textAlignment="center" " app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.459" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.306" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
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OUTPUT



The screenshot shows a mobile application interface with a black background and a red status bar at the top. The status bar displays the time 10:36, various icons, and a battery level of 81%. The app title "CO3_Q3(EXPLICIT INTENT)" is centered at the top in white. Below the title, there are three text input fields, each with a red underline. The first field contains the text "Helna", the second contains "helna house", and the third contains "helna@gmail.com". A red "SUBMIT" button is positioned below the third input field. At the bottom of the screen, there is a black navigation bar with a white back arrow on the left and a white home indicator in the center.

10:36 81%

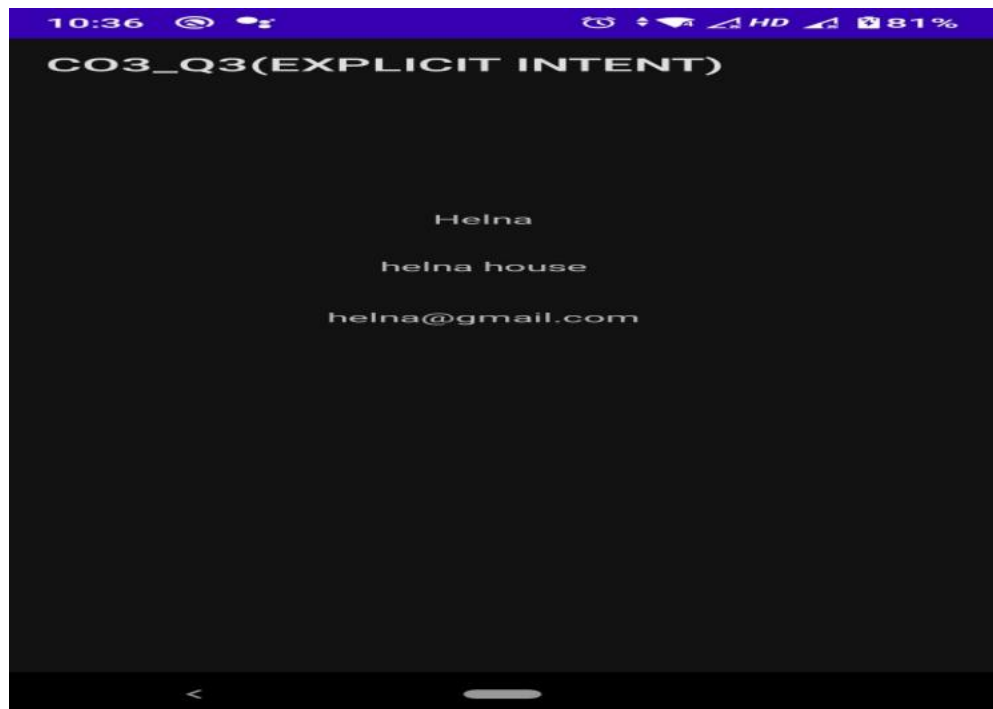
CO3_Q3(EXPLICIT INTENT)

Helna

helna house

helna@gmail.com

SUBMIT



RESULT: The above program is successfully executed and obtained the output

PROGRAM 12

AIM: Implement Options Menu to navigate to activities

PROGRAM CODE

JAVA CODE	<pre>package com.example.optionmenu; import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity; import android.content.Intent; import android.os.Bundle; 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 inflater=getMenuInflater(); inflater.inflate(R.menu.menu_menuoption,menu); return true; //return super.onCreateOptionsMenu(menu); } @Override public boolean onOptionsItemSelected(@NonNull MenuItem item){ int id=item.getItemId(); if(id==R.id.action_settings) { Intent set=new Intent(MainActivity.this,settings.class); startActivity(set); } if(id==R.id.action_home) { Intent home=new</pre>
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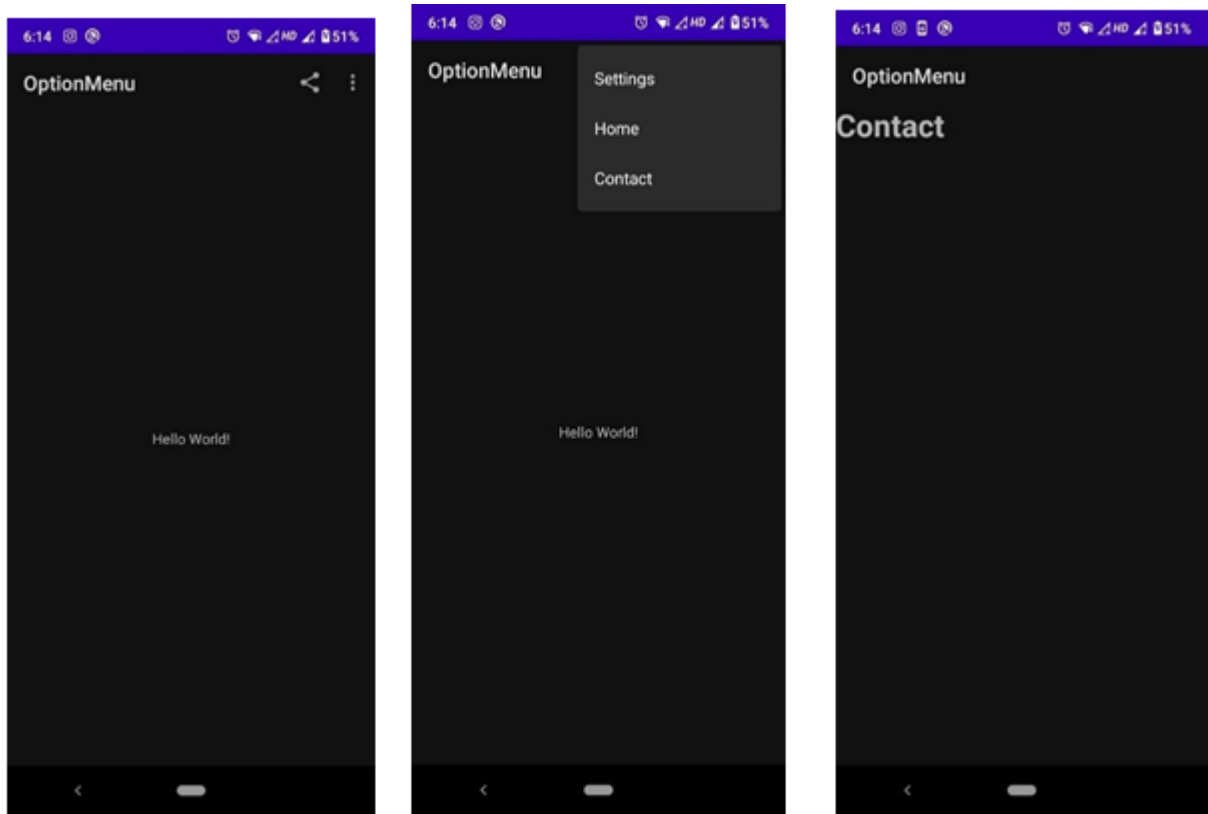
	<pre> Intent(MainActivity.this,home.class); startActivity(home); } if(id==R.id.action_contact) { Intent contact=new Intent(MainActivity.this,contact.class); startActivity(contact); } if(id==R.id.action_share) { Intent share=new Intent(MainActivity.this,share.class); startActivity(share); } return super.onOptionsItemSelected(item); } } </pre>
XML CODE	<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:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Hello World!" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintLeft_toLeftOf="parent" app:layout_constraintRight_toRightOf="parent" app:layout_constraintTop_toTopOf="parent" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
Home.java	<pre> package com.example.optionmenu; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; public class home extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_home); } } </pre>

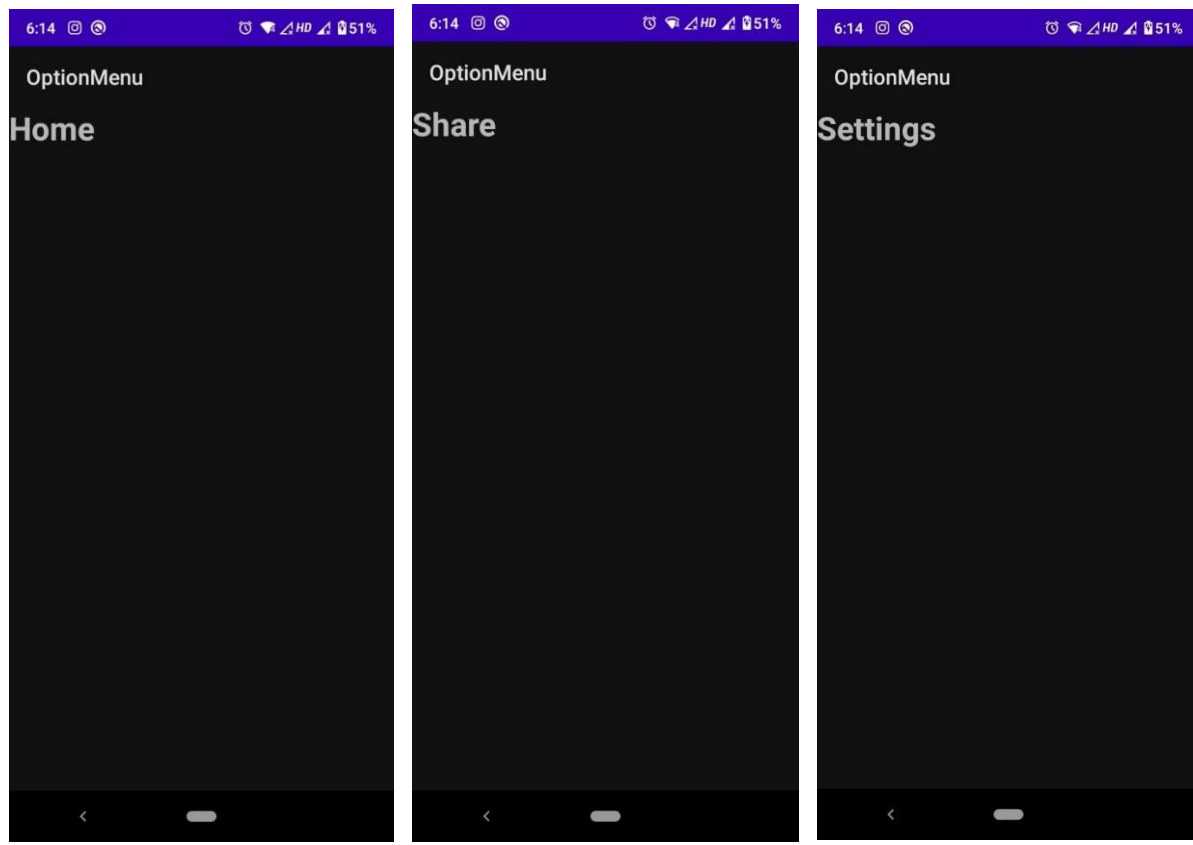
	<pre> } } </pre>
activity_home.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent" android:layout_height="match_parent" tools:context=".home"> <TextView android:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Home" android:textSize="30sp" android:textStyle="bold" tools:ignore="MissingConstraints" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
Contact.java	<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=".home"> <TextView android:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Home" android:textSize="30sp" android:textStyle="bold" tools:ignore="MissingConstraints" /> </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:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Contact" android:textSize="30sp" </pre>

	<pre> android:textStyle="bold" tools:ignore="MissingConstraints" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
Share.java	<pre> package com.example.optionmenu; 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_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:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Share" android:textSize="30sp" android:textStyle="bold" tools:ignore="MissingConstraints" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
Settings.java	<pre> package com.example.optionmenu; 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>

	}
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:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Settings" android:textSize="30sp" android:textStyle="bold" tools:ignore="MissingConstraints" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>

OUTPUT





RESULT: The above program is successfully executed and obtained the output

PROGRAM 13

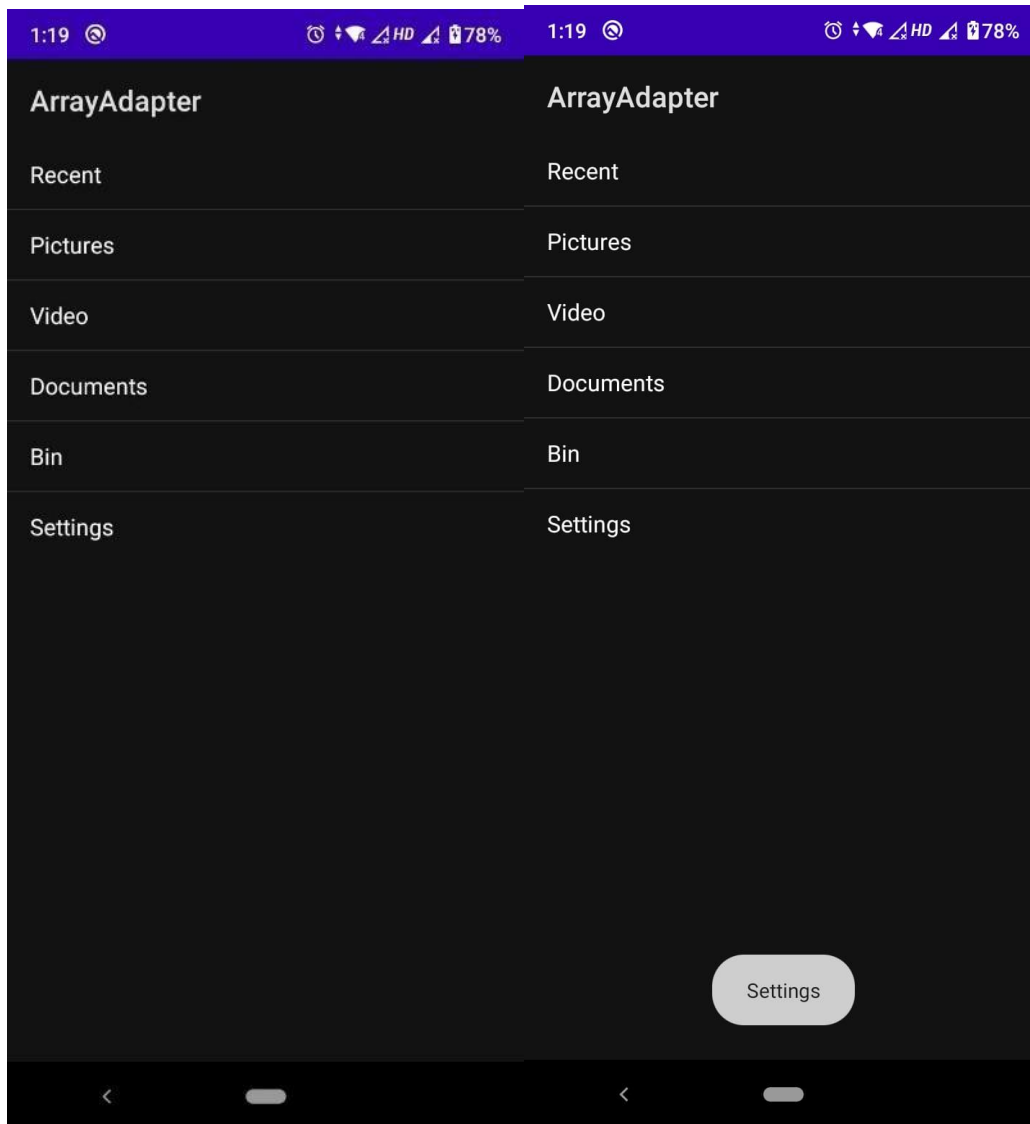
AIM: Develop an application that uses ArrayAdapter with ListView.

PROGRAM CODE

MainActivity.java	<pre>package com.example.arrayadapter; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.view.View; import android.widget.ListView; import android.widget.AdapterView; import android.widget.AdapterView.OnItemClickListener; 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","Pictures","Video","Documents","Bin","Settings"}; 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="wrap_content" android:layout_height="wrap_content" tools:layout_editor_absoluteX="1dp" tools:layout_editor_absoluteY="1dp" tools:ignore="MissingConstraints" /> </androidx.constraintlayout.widget.ConstraintLayout></pre>
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OUTPUT



RESULT : The above program is successfully executed and obtained the output.