Slip no – 6

Q1. Create a Simple Application Which Send ―Hello! message from one activity to another with help of Button (Use Intent).

* Open your AndroidManifest.xml file and add the ResultActivity declaration within code.

<application

<!-- Other application configurations -->

<activity android:name=".ResultActivity"/>

</application>

activity\_main.xml

<RelativeLayout *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *xmlns:tools*="http://schemas.android.com/tools"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *tools:context*=".MainActivity">  
  
 <EditText  
 *android:id*="@+id/messageEditText"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:hint*="Enter message"  
 *android:layout\_centerInParent*="true"/>  
  
 <Button  
 *android:id*="@+id/sendButton"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Send"  
 *android:layout\_below*="@id/messageEditText"  
 *android:layout\_centerHorizontal*="true"  
 *android:onClick*="sendMessage"/>  
   
</RelativeLayout>

activity\_result.xml

<RelativeLayout *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *xmlns:tools*="http://schemas.android.com/tools"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *tools:context*=".ResultActivity">  
  
 <TextView  
 *android:id*="@+id/messageTextView"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:textSize*="24sp"  
 *android:layout\_centerInParent*="true"/>  
  
</RelativeLayout>

MainActivity.java

*package* com.example.activitylifecycle;  
*import* android.content.Intent;  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.EditText;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 *private* EditText messageEditText;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 messageEditText = findViewById(R.id.*messageEditText*);  
 }  
  
 *public void* sendMessage(View view) {  
 String message = messageEditText.getText().toString();  
  
 Intent intent = *new* Intent(*this*, ResultActivity.*class*);  
 intent.putExtra("message", message);  
 startActivity(intent);  
 }  
}

ResultActivity.java

*package* com.example.activitylifecycle;  
*import* android.content.Intent;  
*import* android.os.Bundle;  
*import* android.widget.TextView;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* ResultActivity *extends* AppCompatActivity {  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_result*);  
  
 TextView messageTextView = findViewById(R.id.*messageTextView*);  
  
 Intent intent = getIntent();  
 String message = intent.getStringExtra("message");  
  
 messageTextView.setText(message);  
 }  
}

Q2. Create an Android Application that Demonstrates ListView and Onclick of List Display the Toast.

activity\_main.xml

<?*xml version*="1.0" *encoding*="utf-8"?>  
<RelativeLayout *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *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*="match\_parent"  
 *android:layout\_height*="match\_parent" />  
  
</RelativeLayout>

MainActivity.java

*package* com.example.activitylifecycle;  
  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.AdapterView;  
*import* android.widget.ArrayAdapter;  
*import* android.widget.ListView;  
*import* android.widget.Toast;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 ListView listView;  
 String[] items = {"Item 1", "Item 2", "Item 3", "Item 4", "Item 5"};  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 listView = findViewById(R.id.*listView*);  
 ArrayAdapter<String> adapter = *new* ArrayAdapter<>(*this*, android.R.layout.***simple\_list\_item\_1***, items);  
 listView.setAdapter(adapter);  
  
 *// Set item click listener for the list view* listView.setOnItemClickListener(*new* AdapterView.OnItemClickListener() {  
 @Override  
 *public void* onItemClick(AdapterView<?> parent, View view, *int* position, *long* id) {  
 String selectedItem = items[position];  
 showToast(selectedItem);  
 }  
 });  
 }  
  
 *// Method to display toast message  
 private void* showToast(String message) {  
 Toast.*makeText*(*this*, "You clicked: " + message, Toast.***LENGTH\_SHORT***).show();  
 }  
}