Slip no – 7

Q1. Create an Android Application that Demonstrate Radio Button.

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">  
  
 <TextView  
 *android:id*="@+id/selectedOptionTextView"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Selected Option:"  
 *android:layout\_marginTop*="20dp"/>  
  
 <RadioGroup  
 *android:id*="@+id/radioGroup"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_below*="@id/selectedOptionTextView"  
 *android:layout\_centerHorizontal*="true">  
  
 <RadioButton  
 *android:id*="@+id/radioButtonOption1"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Option 1"/>  
  
 <RadioButton  
 *android:id*="@+id/radioButtonOption2"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Option 2"/>  
  
 <RadioButton  
 *android:id*="@+id/radioButtonOption3"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Option 3"/>  
 </RadioGroup>  
  
</RelativeLayout>

MainActivity.java

*package* com.example.activitylifecycle;  
*import* android.os.Bundle;  
*import* android.widget.RadioButton;  
*import* android.widget.RadioGroup;  
*import* android.widget.TextView;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 *private* TextView selectedOptionTextView;  
 *private* RadioGroup radioGroup;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 selectedOptionTextView = findViewById(R.id.*selectedOptionTextView*);  
 radioGroup = findViewById(R.id.*radioGroup*);  
  
 *// Set RadioGroup OnCheckedChangeListener* radioGroup.setOnCheckedChangeListener(*new* RadioGroup.OnCheckedChangeListener() {  
 @Override  
 *public void* onCheckedChanged(RadioGroup radioGroup, *int* checkedId) {  
 *// Find which RadioButton is checked by id* RadioButton radioButton = findViewById(checkedId);  
  
 *// Display selected option* selectedOptionTextView.setText("Selected Option: " + radioButton.getText());  
 }  
 });  
 }  
}

Q2. Create an Android application to demonstrate phone call using Implicit Intent.

* Add permission code on AndroidManifest.xml file

<uses-feature

android:name="android.hardware.telephony"

android:required="false" />

<uses-permission android:name="android.permission.CALL\_PHONE" />

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">  
  
 <Button  
 *android:id*="@+id/button\_call"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Make Phone Call"  
 *android:layout\_centerInParent*="true"/>  
  
</RelativeLayout>

MainActivity.java

*package* com.example.activitylifecycle;  
  
*import* android.content.Intent;  
*import* android.net.Uri;  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 Button callButton = findViewById(R.id.*button\_call*);  
 callButton.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 *// Phone number to call* String phoneNumber = "123456789"; *// Replace with the desired phone number  
  
 // Create the intent with the ACTION\_DIAL action* Intent intent = *new* Intent(Intent.***ACTION\_DIAL***);  
 *// Set the data for the intent (phone number to call)* intent.setData(Uri.*parse*("tel:" + phoneNumber));  
 *// Start the activity with the intent* startActivity(intent);  
 }  
 });  
 }  
}