Q1:- develop a Simple Android Application that print Hello using a Textview

Aim:

To develop a Simple Android Application that print Hello using a Textview.

Procedure:

Creating a New project:

**Code for 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:id="@+id/activity\_main"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 tools:context="com.example.shajan.assignment\_1.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello Shajan!"** />  
  
 <**TextView  
 android:text="Android Development"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/textView"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentStart="true"  
 android:layout\_marginTop="82dp"  
 android:id="@+id/textView2"** />  
</**RelativeLayout**>

Activity.java

**package** com.example.shajan.assignment\_1;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 }  
}

Q2:- Android Application to add two numbers

Aim:

To develop a Simple Android Application that uses GUI components, Font and Colors.

Procedure:

Creating a New project:

**Code for 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:id="@+id/activity\_main"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 tools:context="com.example.shajan\_lp.myapplication.MainActivity"**>  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="textPersonName"  
 android:ems="10"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginTop="28dp"  
 android:id="@+id/editText"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentStart="true"  
 android:hint="Enter the no1"** />  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="textPersonName"  
 android:text=""  
 android:ems="10"  
 android:layout\_below="@+id/editText"  
 android:layout\_alignRight="@+id/editText"  
 android:layout\_alignEnd="@+id/editText"  
 android:layout\_marginTop="74dp"  
 android:id="@+id/editText2"  
 android:hint="Enter the no2"** />  
  
 <**Button  
 android:text="Press to sum up the values"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/button"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginBottom="78dp"** />  
  
 <**TextView  
 android:text="TextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="78dp"  
 android:layout\_marginStart="78dp"  
 android:id="@+id/textView"  
 android:layout\_above="@+id/button"  
 android:layout\_alignLeft="@+id/button"  
 android:layout\_alignStart="@+id/button"  
 android:layout\_marginBottom="24dp"** />  
  
  
</**RelativeLayout**>

Activity.java

**package** com.example.shajan.demo;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 EditText **t1**,**t2**;  
 Button **b**;  
 TextView **t**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **t1**=(EditText)findViewById(R.id.***editText***);  
 **t2**=(EditText)findViewById(R.id.***editText2***);  
 **t**=(TextView)findViewById(R.id.***textView***);  
 **b**=(Button)findViewById(R.id.***button***);  
  
 **b**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
  
 String a=**t1**.getText().toString();  
 String b=**t2**.getText().toString();  
  
 **int** c=Integer.*parseInt*(a)+Integer.*parseInt*(b);  
  
 **t**.setText(String.*valueOf*(c));  
  
  
 }  
 });  
 }  
}

Q3. Display a Toast message when you Click a button

*<?***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"  
 android:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 tools:context=".MainActivity"** >  
  
 <**Button  
 android:id="@+id/click"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:onClick="displayToast"  
 android:text="Display Toast"** />  
  
</**RelativeLayout**>

Activity .java

**package** com.example.shajan.mytoast;  
  
  
**import** android.os.Bundle;  
**import** android.support.v7.app.ActionBarActivity;  
**import** android.view.Menu;  
**import** android.view.View;  
**import** android.widget.Toast;  
  
  
**public class** MainActivity **extends** ActionBarActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 }  
  
 *//Display toast on button click* **public void** displayToast(View view) {  
  
 Toast.*makeText*(MainActivity.**this**, **"Hello Toast Message!"**, Toast.***LENGTH\_LONG***).show();  
  
 }  
}

Q4. Write a Android program to draw a Line

*<?***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:id="@+id/activity\_main"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 tools:context="com.example.shajan\_lp.myapplication.MainActivity"**>  
  
  
 <**ImageView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:srcCompat="@mipmap/ic\_launcher"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentStart="true"  
 android:layout\_marginLeft="149dp"  
 android:layout\_marginStart="149dp"  
 android:layout\_marginTop="129dp"  
 android:id="@+id/imageView"  
 android:scaleType="fitXY"** />  
</**RelativeLayout**>

**package** com.example.shajan.myapplicationlinedrawing;  
  
**import** android.widget.ImageView;  
  
**public class** MainActivity **extends** Activity {  
 ImageView **drawingImageView**;  
  
 @Override  
 **public void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **drawingImageView** = (ImageView) **this**.findViewById(R.id.***imageView***);  
 Bitmap bitmap = Bitmap.*createBitmap*((**int**) getWindowManager()  
 .getDefaultDisplay().getWidth(), (**int**) getWindowManager()  
 .getDefaultDisplay().getHeight(), Bitmap.Config.***ARGB\_8888***);  
 Canvas canvas = **new** Canvas(bitmap);  
 **drawingImageView**.setImageBitmap(bitmap);  
  
 *// Line* Paint paint = **new** Paint();  
 paint.setColor(Color.***GREEN***);  
 paint.setStrokeWidth(10);  
 **int** startx = 50;  
 **int** starty = 100;  
 **int** endx = 150;  
 **int** endy = 210;  
 canvas.drawLine(startx, starty, endx, endy, paint);  
 }  
}

## Q5 design a user interface using linear layout with vertical orientation

## <LinearLayout 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"

## android:orientation="vertical"

## tools:context=".LinearLayout" >

## 

## <Button

## android:text="BUTTON"

## android:layout\_width="wrap\_content"

## android:layout\_height="wrap\_content"

## />

## 

## <TextView

## android:layout\_width="wrap\_content"

## android:layout\_height="wrap\_content"

## android:text="Text 1"

## android:paddingTop="10px"/>

## 

## <TextView

## android:layout\_width="wrap\_content"

## android:layout\_height="wrap\_content"

## android:text="Text 2"

## android:paddingTop="10px"/>

## 

## <TextView

## android:layout\_width="wrap\_content"

## android:layout\_height="wrap\_content"

## android:text="Text 3"

## android:paddingTop="10px"/>

## 

## </LinearLayout>

## Q6 --Design a user interface using Table Layout

*<?***xml version="1.0" encoding="utf-8"***?>*<**TableLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:id="@+id/tableLayout1"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent"** >  
  
 *<!-- 2 columns -->* <**TableRow  
 android:id="@+id/tableRow1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="5dip"** >  
  
 <**TextView  
 android:id="@+id/textView1"  
 android:text="Column 1"  
 android:textAppearance="?android:attr/textAppearanceLarge"** />  
  
 <**Button  
 android:id="@+id/button1"  
 android:text="Column 2"** />  
 </**TableRow**>  
  
 *<!-- edittext span 2 column -->* <**TableRow  
 android:id="@+id/tableRow2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="5dip"** >  
  
 <**EditText  
 android:id="@+id/editText1"  
 android:layout\_span="2"  
 android:text="Column 1 "** />  
 </**TableRow**>  
  
 *<!-- just draw a red line -->  
 <!-- 3 columns -->* <**TableRow  
 android:id="@+id/tableRow3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="5dip"** >  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:text="Column 1"  
 android:textAppearance="?android:attr/textAppearanceLarge"** />  
  
 <**Button  
 android:id="@+id/button2"  
 android:text="Column 2"** />  
  
 <**Button  
 android:id="@+id/button3"  
 android:text="Column 3"** />  
 </**TableRow**>  
  
 *<!-- display this button in 3rd column via layout\_column(zero based) -->* <**TableRow  
 android:id="@+id/tableRow4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="5dip"** >  
  
 <**Button  
 android:id="@+id/button4"  
 android:layout\_column="2"  
 android:text="Column 3"** />  
 </**TableRow**>  
  
 *<!-- display this button in 2nd column via layout\_column(zero based) -->* <**TableRow  
 android:id="@+id/tableRow5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:padding="5dip"** >  
  
 <**Button  
 android:id="@+id/button5"  
 android:layout\_column="1"  
 android:text="Column 2"** />  
 </**TableRow**>  
  
</**TableLayout**>

## Q6 --Design a user interface using Absolute Layout

## import android.os.Bundle;

## import android.app.Activity;

## public class MainActivity extends Activity {

## @Override

## protected void onCreate(Bundle savedInstanceState) {

## super.onCreate(savedInstanceState);

## setContentView(R.layout.activity\_main);

## }

## 

## }

## Following will be the content of res/layout/activity\_main.xml file −

## <AbsoluteLayout xmlns:android="http://schemas.android.com/apk/res/android"

## android:layout\_width="fill\_parent"

## android:layout\_height="fill\_parent">

## 

## <Button

## android:layout\_width="100dp"

## android:layout\_height="wrap\_content"

## android:text="OK"

## android:layout\_x="50px"

## android:layout\_y="361px" />

## <Button

## android:layout\_width="100dp"

## android:layout\_height="wrap\_content"

## android:text="Cancel"

## android:layout\_x="225px"

## android:layout\_y="361px" />

## </AbsoluteLayout>

## Q7 --Design a user interface using Relative Layout

## import android.os.Bundle;

## import android.app.Activity;

## public class MainActivity extends Activity {

## @Override

## protected void onCreate(Bundle savedInstanceState) {

## super.onCreate(savedInstanceState);

## setContentView(R.layout.activity\_main);

## }

## 

## }

## Following will be the content of res/layout/activity\_main.xml file −

## <**RelativeLayout**xmlns:android="<http://schemas.android.com/apk/res/android>"             xmlns:tools="<http://schemas.android.com/tools>"             android:layout\_width="fill\_parent"             android:layout\_height="fill\_parent"             tools:context=".RelativeLayoutAndroidExample" >                              <TextView                       **android:id="@+id/text1"**                         android:layout\_width="wrap\_content"                         android:layout\_height="wrap\_content"                         android:layout\_centerHorizontal="true"                         android:layout\_centerInParent="false"                         android:text="LOGIN"                         android:layout\_marginTop="14dp"                         android:textAppearance="?android:attr/textAppearanceLarge"                         />                                        <TextView                          android:id="@+id/textView1"                          android:layout\_width="wrap\_content"                          android:layout\_height="wrap\_content" **android:layout\_below="@+id/text1"**                          android:layout\_marginTop="20dp"                          android:text="Username :"                          android:textAppearance="?android:attr/textAppearanceLarge" />                                        <EditText                          android:id="@+id/editText1"                          android:layout\_width="wrap\_content"                          android:layout\_height="wrap\_content"                          android:layout\_alignParentRight="true" **android:layout\_alignTop="@+id/textView1"** **android:layout\_toRightOf="@+id/textView1"**                          />                                            <TextView                          android:id="@+id/textView2"                          android:layout\_width="wrap\_content"                          android:layout\_height="wrap\_content" **android:layout\_below="@+id/textView1"**                          android:layout\_marginTop="20dp"                                                    android:text="Password :"                          android:textAppearance="?android:attr/textAppearanceLarge" />                                        <EditText                          android:id="@+id/editText2"                          android:layout\_width="wrap\_content"                          android:layout\_height="wrap\_content" **android:layout\_alignParentRight="true"** **android:layout\_alignTop="@+id/textView2"** **android:layout\_toRightOf="@+id/textView2"**                          android:inputType="textPassword"                          />                                        <Button                          android:id="@+id/btnSubmit"                          android:layout\_width="wrap\_content"                          android:layout\_height="wrap\_content"                        **android:layout\_alignParentLeft="false"** **android:layout\_below="@+id/editText2"** **android:layout\_centerInParent="true"**                          android:text="Submit" />                                                                            <Button                          android:layout\_width="wrap\_content"                          android:layout\_height="wrap\_content"                          **android:layout\_alignParentBottom="true"**                          android:text="SIGNUP"                          android:layout\_centerHorizontal="true"/>                  </**RelativeLayout**>

## Q8 --Design a user interface using GridView

## lets you arranges components in a two-dimensional scrolling grid.

## <?xml version="1.0" encoding="utf-8"?>

## <GridView xmlns:android="http://schemas.android.com/apk/res/android"

## android:id="@+id/gridView1"

## android:numColumns="auto\_fit"

## android:gravity="center"

## android:columnWidth="50dp"

## android:stretchMode="columnWidth"

## android:layout\_width="fill\_parent"

## android:layout\_height="fill\_parent" >

## </GridView>

**package** com.example.shajan\_lp.myapplication;  
  
**import** android.app.Activity;  
**import** android.os.Bundle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.widget.AdapterView;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.GridView;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
**import** android.view.View;  
**import** android.widget.AdapterView.OnItemClickListener;  
  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 GridView **gridView**;  
  
 **static final** String[] ***numbers*** = **new** String[] {  
 **"A"**, **"B"**, **"C"**, **"D"**, **"E"**,  
 **"F"**, **"G"**, **"H"**, **"I"**, **"J"**,  
 **"K"**, **"L"**, **"M"**, **"N"**, **"O"**,  
 **"P"**, **"Q"**, **"R"**, **"S"**, **"T"**,  
 **"U"**, **"V"**, **"W"**, **"X"**, **"Y"**, **"Z"**};  
  
 @Override  
 **public void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
  
 setContentView(R.layout.***activity\_main***);  
 **gridView** = (GridView) findViewById(R.id.***gridView1***);  
 ArrayAdapter<String> adapter = **new** ArrayAdapter<String>(**this**,  
 android.R.layout.***simple\_list\_item\_1***, ***numbers***);  
 **gridView**.setAdapter(adapter);  
  
 **gridView**.setOnItemClickListener(**new** OnItemClickListener() {  
 **public void** onItemClick(AdapterView<?> parent, View v,  
 **int** position, **long** id) {  
 Toast.*makeText*(getApplicationContext(),  
 ((TextView) v).getText(), Toast.***LENGTH\_SHORT***).show();  
 }  
 });  
  
 }  
  
}

///////

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## Q9--- Write a program to design a User Interface using Normal List View

## <?xml version="1.0" encoding="utf-8"?>

## <TextView xmlns:android="http://schemas.android.com/apk/res/android"

## android:layout\_width="fill\_parent"

## android:layout\_height="fill\_parent"

## android:padding="10dp"

## android:textSize="20sp" >

## </TextView>

**package** com.example.shajan\_lp.myapplication;  
  
**import** android.app.ListActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.AdapterView;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.ListView;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
**import** android.widget.AdapterView.OnItemClickListener;  
  
**public class** MainActivity **extends** ListActivity {  
  
 **static final** String[] ***FRUITS*** = **new** String[] { **"Apple"**, **"Avocado"**, **"Banana"**,  
 **"Blueberry"**, **"Coconut"**, **"Durian"**, **"Guava"**, **"Kiwifruit"**,  
 **"Jackfruit"**, **"Mango"**, **"Olive"**, **"Pear"**, **"Sugar-apple"** };  
  
 @Override  
 **public void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
  
 *// no more this  
 // setContentView(R.layout.list\_fruit);* setListAdapter(**new** ArrayAdapter<String>(**this**, R.layout.***activity\_main***,***FRUITS***));  
  
 ListView listView = getListView();  
 listView.setTextFilterEnabled(**true**);  
  
 listView.setOnItemClickListener(**new** OnItemClickListener() {  
 **public void** onItemClick(AdapterView<?> parent, View view,  
 **int** position, **long** id) {  
 *// When clicked, show a toast with the TextView text* Toast.*makeText*(getApplicationContext(),  
 ((TextView) view).getText(), Toast.***LENGTH\_SHORT***).show();  
 }  
 });  
  
 }  
  
}

## Q10-- Write a program to design a User Interface using Image button - Add Image to Resources

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent"  
 android:orientation="vertical"** >  
  
 <**ImageButton  
 android:id="@+id/imageButton1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:src="@mipmap/ic\_launcher"  
 tools:src="@android:drawable/edit\_text"** />  
</**LinearLayout**>

## File : MyAndroidAppActivity.java

## package com.mkyong.android;

**package** com.example.shajan\_lp.myapplication;  
  
**import** android.app.Activity;  
**import** android.os.Bundle;  
**import** android.widget.ImageButton;  
**import** android.widget.Toast;  
**import** android.view.View;  
**import** android.view.View.OnClickListener;  
  
**public class** MainActivity **extends** Activity {  
 ImageButton **imageButton**;  
 @Override  
 **public void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 addListenerOnButton();  
 }  
 **public void** addListenerOnButton() {  
  
 **imageButton** = (ImageButton) findViewById(R.id.***imageButton1***);  
  
 **imageButton**.setOnClickListener(**new** OnClickListener() {  
  
 @Override  
 **public void** onClick(View arg0) {  
  
 Toast.*makeText*(MainActivity.**this**,  
 **"ImageButton is clicked!"**, Toast.***LENGTH\_SHORT***).show();  
  
 }  
  
 });  
 }}

**Q11-- Write a program to design a User Interface using Widget -**RadioButton

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:orientation="vertical" >

<RadioGroup

android:id="@+id/radioSex"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" >

<RadioButton

android:id="@+id/radioMale"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/radio\_male"

android:checked="true" />

<RadioButton

android:id="@+id/radioFemale"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/radio\_female" />

</RadioGroup>

<Button

android:id="@+id/btnDisplay"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/btn\_display" />

</LinearLayout>

import android.app.Activity;

import android.os.Bundle;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.Button;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Toast;

public class MyAndroidAppActivity extends Activity {

private RadioGroup radioSexGroup;

private RadioButton radioSexButton;

private Button btnDisplay;

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.main);

addListenerOnButton();

}

public void addListenerOnButton() {

radioSexGroup = (RadioGroup) findViewById(R.id.radioSex);

btnDisplay = (Button) findViewById(R.id.btnDisplay);

btnDisplay.setOnClickListener(new OnClickListener() {

@Override

public void onClick(View v) {

// get selected radio button from radioGroup

int selectedId = radioSexGroup.getCheckedRadioButtonId();

// find the radiobutton by returned id

radioSexButton = (RadioButton) findViewById(selectedId);

Toast.makeText(MyAndroidAppActivity.this,

radioSexButton.getText(), Toast.LENGTH\_SHORT).show();

}

});

}

}

////////////////////

Q12-- Write a Android Program to Start and Stop a Service in Android

MainActivity.java

**package** com.example.shajan\_lp.myapplication;  
  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
  
**import** android.os.Bundle;  
**import** android.app.Activity;  
**import** android.util.Log;  
**import** android.view.View;  
  
**import** com.example.tutorialspoint7.myapplication.R;  
  
**public class** MainActivity **extends** Activity {  
 String **msg** = **"Android : "**;  
  
 */\*\* Called when the activity is first created. \*/* @Override  
 **public void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 Log.*d*(**msg**, **"The onCreate() event"**);  
 }  
  
 **public void** startService(View view) {  
 startService(**new** Intent(getBaseContext(), MyService.**class**));  
 }  
  
 *// Method to stop the service* **public void** stopService(View view) {  
 stopService(**new** Intent(getBaseContext(), MyService.**class**));  
 }  
}

MyService.java

**package** com.example.shajan\_lp.myapplication;  
  
**import** android.app.Service;  
**import** android.content.Intent;  
**import** android.os.IBinder;  
**import** android.support.annotation.Nullable;  
**import** android.widget.Toast;  
  
  
**public class** MyService **extends** Service {  
 @Nullable  
 @Override  
 **public** IBinder onBind(Intent intent) {  
 **return null**;  
 }  
  
 @Override  
 **public int** onStartCommand(Intent intent, **int** flags, **int** startId) {  
 *// Let it continue running until it is stopped.* Toast.*makeText*(**this**, **"Service Started"**, Toast.***LENGTH\_LONG***).show();  
 **return *START\_STICKY***;  
 }  
  
 @Override  
 **public void** onDestroy() {  
 **super**.onDestroy();  
 Toast.*makeText*(**this**, **"Service Destroyed"**, Toast.***LENGTH\_LONG***).show();  
 }  
}

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" android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 android:paddingBottom="@dimen/activity\_vertical\_margin"**>  
  
 <**TextView  
 android:id="@+id/textView1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Example of services"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:textSize="30dp"** />  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="SNGCE Kolenchery "  
 android:textColor="#ff87ff09"  
 android:textSize="30dp"  
 android:layout\_above="@+id/imageButton"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginBottom="40dp"** />  
  
 <**ImageButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/imageButton"  
 android:src="@mipmap/ic\_launcher"  
 android:layout\_centerVertical="true"  
 android:layout\_centerHorizontal="true"** />  
  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/button2"  
 android:text="Start Services"  
 android:onClick="startService"  
 android:layout\_below="@+id/imageButton"  
 android:layout\_centerHorizontal="true"** />  
  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Stop Services"  
 android:id="@+id/button"  
 android:onClick="stopService"  
 android:layout\_below="@+id/button2"  
 android:layout\_alignLeft="@+id/button2"  
 android:layout\_alignStart="@+id/button2"  
 android:layout\_alignRight="@+id/button2"  
 android:layout\_alignEnd="@+id/button2"** />  
  
</**RelativeLayout**>

AndroidManifest.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.tutorialspoint7.myapplication"**>  
  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme"**>  
 <**activity android:name="com.example.shajan\_lp.myapplication.MainActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
  
 <**service  
 android:name="com.example.shajan\_lp.myapplication.MyService"  
 android:enabled="true"  
 android:exported="true"**></**service**>  
 </**application**>  
  
</**manifest**>