

## 6. QuizApp

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"
    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.vikasojha.quizbee.MainActivity"
    >

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/quizapp"
        android:layout_marginTop="48dp"
        android:textSize="60dp"
        android:id="@+id/textView"
        android:layout_alignParentTop="true"
        android:layout_alignLeft="@+id/editName"
        android:layout_alignStart="@+id/editName"
        android:textColor="#F44336" />

    <Button
        android:layout_width="200dp"
        android:layout_height="52dp"
        android:text="Start"
        android:id="@+id/button"
        android:textSize="30dp"
        android:layout_above="@+id/button2"
        android:layout_alignLeft="@+id/editName"
        android:layout_alignStart="@+id/editName"
        android:layout_marginBottom="25dp"
        android:background="#FF5722"
        android:textColor="#ffffff" />

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:inputType="textPersonName"
        android:ems="10"
        android:id="@+id/editName"
        android:textColor="#df040b"
        android:hint="Enter your name"
        android:layout_centerVertical="true"
        android:layout_centerHorizontal="true" />

    <Button
        android:layout_width="200dp"
        android:layout_height="52dp"
        android:text="About"
        android:id="@+id/button2"
        android:textSize="30dp"
        android:layout_marginBottom="33dp"
        android:layout_alignParentBottom="true"
        android:layout_alignLeft="@+id/button"
        >
```

```

        android:layout_alignStart="@+id/button"
        android:background="#01579B"
        android:textColor="#ffffff" />
</RelativeLayout>

```

MainActivity.java

```

package com.example.vikasojha.quizbee;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

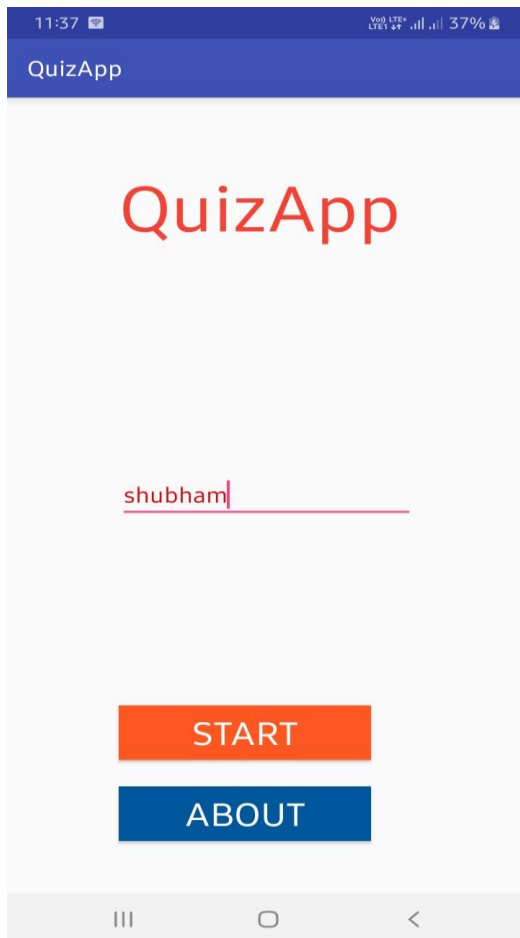
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Button startbutton=(Button)findViewById(R.id.button);
        Button aboutbutton=(Button)findViewById(R.id.button2);
        final EditText nametext=(EditText)findViewById(R.id.editName);

        startbutton.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View v)
            {
                String name=nametext.getText().toString();
                Intent intent=new
Intent(getApplicationContext(),QuestionsActivity.class);
                intent.putExtra("myname",name);
                startActivity(intent);
            }
        });

        aboutbutton.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View v)
            {
                Intent intent=new
Intent(getApplicationContext(),DeveloperActivity.class);
                startActivity(intent);
            }
        });
    }
}

```



activity\_question.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"
    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.vikasojha.quizbee.QuestionsActivity">

    <TextView
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:id="@+id/DispName"
        android:textColor="@color/accent_material_light"
        android:layout_alignParentTop="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true" />

    <RadioGroup
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/DispName"
        android:layout_alignStart="@+id/DispName"
```

```
android:id="@+id/answersgrp"
android:clickable="true"
android:layout_centerVertical="true">
<!--android:Layout-->
<!--android:checkedButton="@+id/radioButton"-->
```

```
<RadioButton
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="A"
    android:id="@+id/radioButton"
    android:checked="false"
/>
```

```
<RadioButton
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="B"
    android:id="@+id/radioButton2"
    android:checked="false" />
```

```
<RadioButton
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="C"
    android:id="@+id/radioButton3"
    android:checked="false" />
```

```
<RadioButton
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="D"
    android:id="@+id/radioButton4"
    android:checked="false" />
```

```
</RadioGroup>
```

```
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Next Question"
    android:id="@+id/button3"
    android:layout_marginTop="27dp"
    android:layout_below="@+id/answersgrp"
    android:layout_alignParentRight="true"
    android:layout_alignParentEnd="true"
    android:background="#FF5722"
    android:textColor="#ffffff"/>
```

```
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Quit"
    android:id="@+id/buttonquit"
    android:layout_marginTop="20dp"
    android:layout_below="@+id/button3"
    android:layout_alignParentRight="true"
    android:layout_alignParentEnd="true"
```

```

        android:background="#01579B"
        android:textColor="#ffffff" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textAppearance="?android:attr/textAppearanceLarge"
    android:text="Questions"
    android:id="@+id/tvque"
    android:layout_marginBottom="52dp"
    android:layout_above="@+id/answersgrp"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="24dp"

    android:textAppearance="@color/abc_background_cache_hint_selector_material_dark"
    android:text="Your Score"
    android:id="@+id/textView3"
    android:textColor="#000000"
    android:textSize="19dp"
    android:layout_alignParentBottom="true"
    android:layout_alignParentLeft="true"/>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="24dp"

    android:textAppearance="@color/abc_background_cache_hint_selector_material_dark"
    android:id="@+id/textView4"
    android:text="0"
    android:textColor="#000000"
    android:layout_alignParentBottom="true"
    android:textAlignment="center"
    android:layout_alignParentRight="true"
    android:textSize="19dp" />

</RelativeLayout>

```

QuestionActivity.java

```

package com.example.vikasojha.quizbee;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;

public class QuestionsActivity extends AppCompatActivity
{

```

```

TextView tv;
Button submitbutton, quitbutton;
RadioGroup radio_g;
RadioButton rb1,rb2,rb3,rb4;

String questions[] = {
    "Which method can be defined only once in a program?",
    "Which of these is not a bitwise operator?",
    "Which keyword is used by method to refer to the
object that invoked it?",
    "Which of these keywords is used to define interfaces
in Java?",
    "Which of these access specifiers can be used for an
interface?",
    "Which of the following is correct way of importing an
entire package 'pkg'?",
    "What is the return type of Constructors?",
    "Which of the following package stores all the
standard java classes?",
    "Which of these method of class String is used to
compare two String objects for their equality?",
    "An expression involving byte, int, & literal numbers
is promoted to which of these?"
};
String answers[] = {"main method", "<=", "this", "interface", "public", "import
pkg.*", "None of the mentioned", "java", "equals()", "int"};
String opt[] = {
    "finalize method", "main method", "static method", "private
method",
    "&", "&=", "|=", "<=",
    "import", "this", "catch", "abstract",
    "Interface", "interface", "intf", "Intf",
    "public", "protected", "private", "All of the mentioned",
    "Import pkg.", "import pkg.*", "Import pkg.*", "import pkg.",
    "int", "float", "void", "None of the mentioned",
    "lang", "java", "util", "java.packages",
    "equals()", "Equals()", "isequal()", "Isequal()",
    "int", "long", "byte", "float"
};

int flag=0;
public static int marks=0,correct=0,wrong=0;
@Override
protected void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_questions);

    final TextView score = (TextView)findViewById(R.id.textView4);
    TextView textView=(TextView)findViewById(R.id.DispName);
    Intent intent = getIntent();
    String name= intent.getStringExtra("myname");

    if (name.trim().equals(""))
        textView.setText("Hello User");
    else
        textView.setText("Hello " + name);

    submitbutton=(Button)findViewById(R.id.button3);
    quitbutton=(Button)findViewById(R.id.buttonquit);

```

```

tv=(TextView) findViewById(R.id.tvque);

radio_g=(RadioGroup)findViewById(R.id.answersgrp);
rb1=(RadioButton)findViewById(R.id.radioButton);
rb2=(RadioButton)findViewById(R.id.radioButton2);
rb3=(RadioButton)findViewById(R.id.radioButton3);
rb4=(RadioButton)findViewById(R.id.radioButton4);
tv.setText(questions[flag]);
rb1.setText(opt[0]);
rb2.setText(opt[1]);
rb3.setText(opt[2]);
rb4.setText(opt[3]);
submitbutton.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View v)
    {
        //int color = mBackgroundColor.getColor();
        //mLayout.setBackgroundColor(color);

        if(radio_g.getCheckedRadioButtonId()==-1)
        {
            Toast.makeText(getApplicationContext(), "Please select one
choice", Toast.LENGTH_SHORT).show();
            return;
        }
        RadioButton uans = (RadioButton)
findViewById(radio_g.getCheckedRadioButtonId());
        String ansText = uans.getText().toString();
        // Toast.makeText(getApplicationContext(), ansText,
Toast.LENGTH_SHORT).show();
        if(ansText.equals(answers[flag]))
        {
            correct++;
            Toast.makeText(getApplicationContext(), "Correct",
Toast.LENGTH_SHORT).show();
        }
        else
        {
            wrong++;
            Toast.makeText(getApplicationContext(), "Wrong",
Toast.LENGTH_SHORT).show();
        }

        flag++;

        if (score != null)
            score.setText(""+correct);

        if(flag<questions.length)
        {
            tv.setText(questions[flag]);
            rb1.setText(opt[flag*4]);
            rb2.setText(opt[flag*4 +1]);
            rb3.setText(opt[flag*4 +2]);
            rb4.setText(opt[flag*4 +3]);
        }
        else
        {

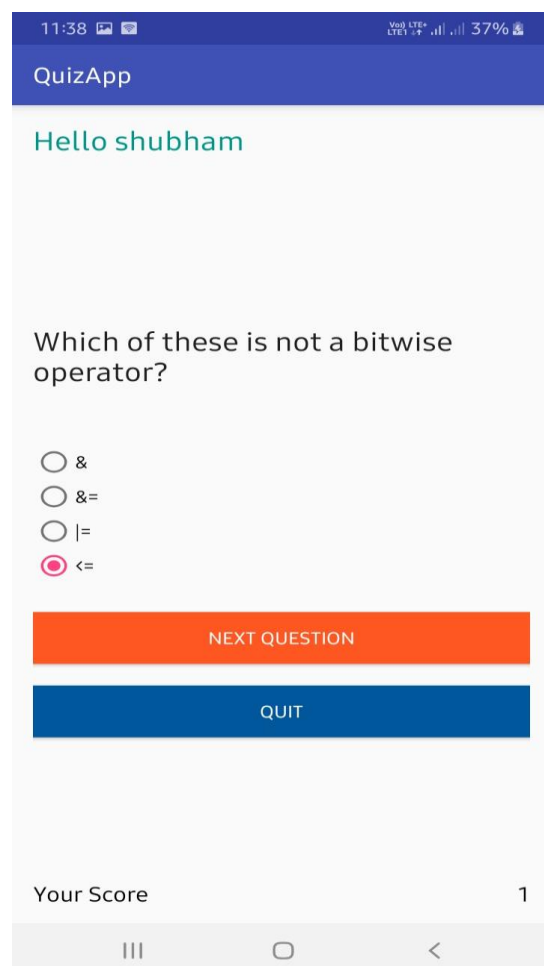
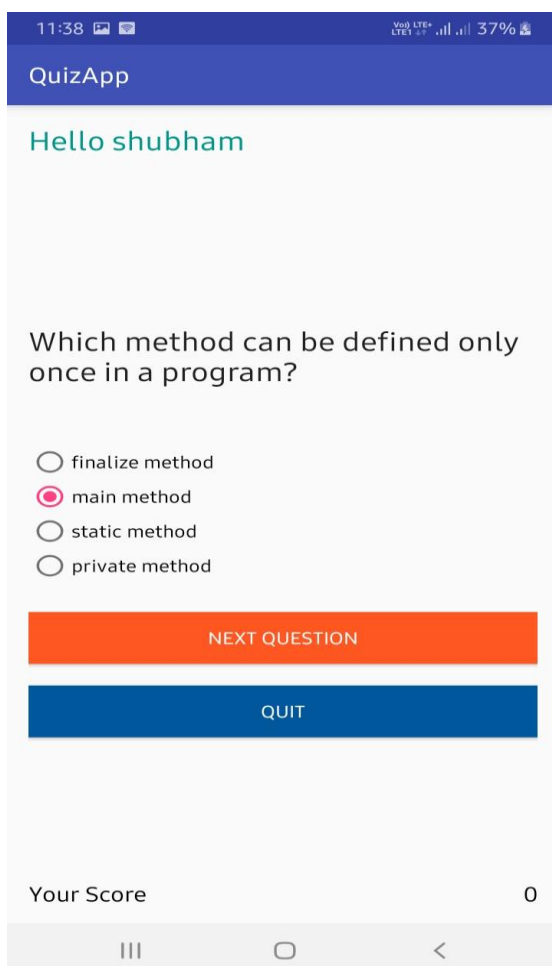
```

```

        marks=correct;
        Intent in = new
Intent(getApplicationContext(),ResultActivity.class);
        startActivity(in);
    }
    radio_g.clearCheck();
});

quitbutton.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View v)
    {
        Intent intent=new
Intent(getApplicationContext(),ResultActivity.class);
        startActivity(intent);
    }
});
}
}
}

```





activity\_result.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"
    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.vikasojha.quizbee.ResultActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="28dp"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="Large Text"
        android:id="@+id/tvres"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="70dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentStart="true"
        android:background="#F44336"
        android:textColor="#000000"
        android:textAlignment="center"
        android:textSize="19dp" />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Restart"
        android:id="@+id/btnRestart"
        android:layout_alignParentBottom="true"
        android:layout_marginBottom="119dp"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:background="#01579B"
        android:textColor="#ffffff" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="28dp"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="Large Text"
        android:id="@+id/tvres2"
        android:background="#76FF03"
        android:layout_below="@+id/tvres"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout_marginTop="31dp"
        android:layout_alignParentRight="true"
        android:layout_alignParentEnd="true"
        android:textColor="#000000"
        android:textAlignment="center"
        android:textSize="19dp" />

    <TextView
        android:layout_width="wrap_content"
```

```

        android:layout_height="28dp"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="Large Text"
        android:id="@+id/tvres3"
        android:background="#FFEB3B"
        android:layout_below="@+id/tvres2"
        android:layout_marginTop="33dp"
        android:layout_alignRight="@+id/tvres2"
        android:layout_alignEnd="@+id/tvres2"
        android:layout_alignParentEnd="true"
        android:layout_alignParentStart="true"
        android:textColor="#000000"
        android:textAlignment="center"
        android:textSize="19dp" />
</RelativeLayout>

```

ResultActivity.java

```

package com.example.vikasojha.quizbee;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.QuickContactBadge;
import android.widget.TextView;

import org.w3c.dom.Text;

public class ResultActivity extends AppCompatActivity
{
    TextView tv, tv2, tv3;
    Button btnRestart;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_result);

        tv = (TextView)findViewById(R.id.tvres);
        tv2 = (TextView)findViewById(R.id.tvres2);
        tv3 = (TextView)findViewById(R.id.tvres3);
        btnRestart = (Button) findViewById(R.id.btnRestart);

        StringBuffer sb = new StringBuffer();
        sb.append("Correct answers: " + QuestionsActivity.correct + "\n");
        StringBuffer sb2 = new StringBuffer();
        sb2.append("Wrong Answers: " + QuestionsActivity.wrong + "\n");
        StringBuffer sb3 = new StringBuffer();
        sb3.append("Final Score: " + QuestionsActivity.correct + "\n");
        tv.setText(sb);
        tv2.setText(sb2);
        tv3.setText(sb3);

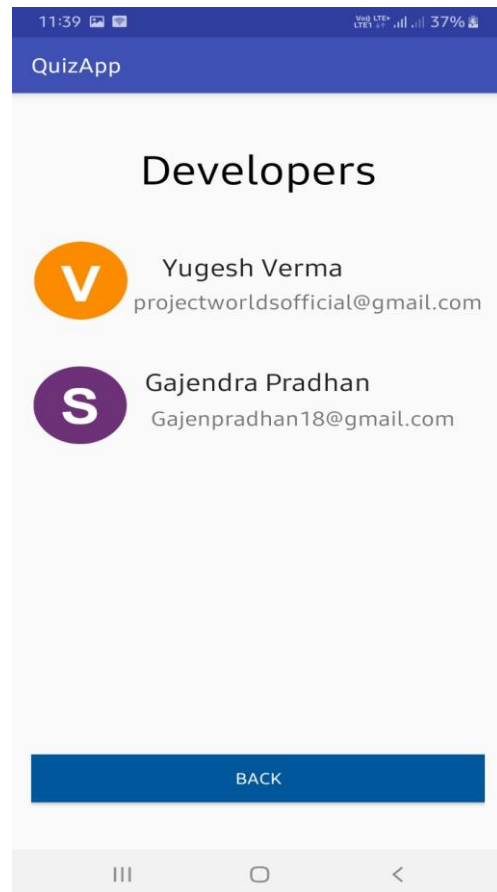
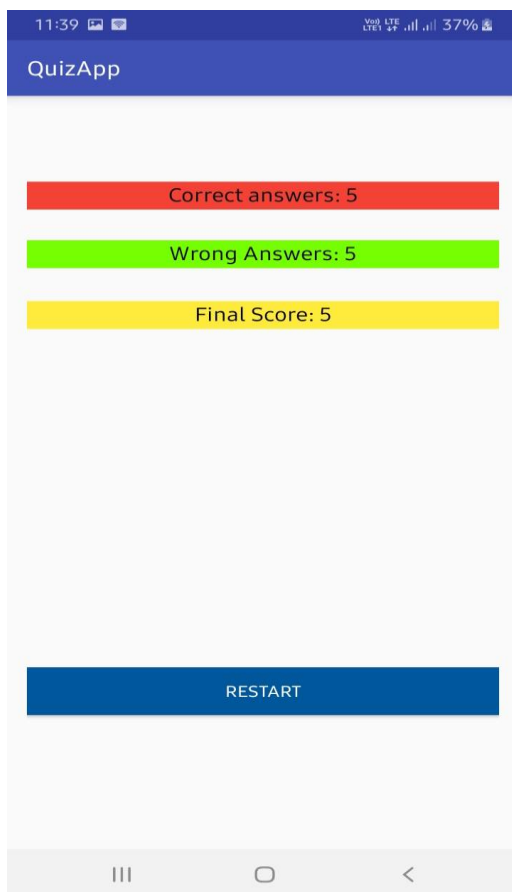
        QuestionsActivity.correct=0;
        QuestionsActivity.wrong=0;
    }
}

```

```

        btnRestart.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View v)
            {
                Intent in = new
Intent(getApplicationContext(),MainActivity.class);
                startActivity(in);
            }
        });
    }
}
}

```



activity\_developer.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"
    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.vikasojha.quizbee.DeveloperActivity">

    <TextView
        android:layout_width="fill_parent"

```

```
android:layout_height="wrap_content"
android:textAppearance="?android:attr/textAppearanceLarge"
android:text="Developers"
android:id="@+id/textView2"
android:layout_marginTop="33dp"
android:textSize="40dp"
android:layout_alignParentTop="true"
android:textColor="#000000"
android:textAlignment="center"
android:layout_alignParentEnd="false"
android:layout_alignParentStart="false"
android:autoText="true"
android:layout_alignParentRight="false" />
```

<Button

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Back"
android:id="@+id/button4"
android:layout_alignParentBottom="true"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true"
android:layout_marginBottom="31dp"
android:background="#01579B"
android:textColor="#ffffff" />
```

<ImageView

```
android:id="@+id/imageView"
android:layout_width="80dp"
android:layout_height="84dp"
android:layout_below="@+id/textView2"
android:layout_alignEnd="@+id/button4"
android:layout_alignRight="@+id/button4"
android:layout_marginTop="43dp"
android:layout_marginEnd="299dp"
android:layout_marginRight="299dp"
android:src="@drawable/vikas" />
```

<TextView

```
android:id="@+id/textView5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignTop="@+id/imageView"
android:layout_alignEnd="@+id/textView7"
android:layout_alignRight="@+id/textView7"
android:layout_marginTop="12dp"
android:layout_marginEnd="23dp"
android:layout_marginRight="23dp"
android:text="@string/yugesh_verma"
android:textAppearance="?android:attr/textAppearanceLarge" />
```

<TextView

```
android:id="@+id/textView6"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@+id/textView5"
android:layout_alignEnd="@+id/textView5"
android:layout_alignRight="@+id/textView5"
android:layout_marginTop="5dp"
```

```

        android:layout_marginEnd="-116dp"
        android:layout_marginRight="-116dp"
        android:text="@string/projectworldsofficial_gmail_com"
        android:textAppearance="?android:attr/textAppearanceMedium" />

<TextView
    android:id="@+id/textView7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/imageView"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="43dp"
    android:text="@string/gajendra_pradhan"
    android:textAppearance="?android:attr/textAppearanceLarge" />

<TextView
    android:id="@+id/textView8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textView7"
    android:layout_alignStart="@+id/textView7"
    android:layout_alignLeft="@+id/textView7"
    android:layout_marginStart="5dp"
    android:layout_marginLeft="5dp"
    android:layout_marginTop="7dp"
    android:text="@string/gajenpradhan18_gmail_com"
    android:textAppearance="?android:attr/textAppearanceMedium" />

<ImageView
    android:layout_width="80dp"
    android:layout_height="80dp"
    android:id="@+id/imageView2"
    android:src="@drawable/sushant"
    android:layout_alignTop="@+id/textView7"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true"
    android:layout_alignParentEnd="false"
    android:layout_alignParentBottom="false"
    android:layout_alignParentTop="false"
    android:layout_alignWithParentIfMissing="false" />

</RelativeLayout>

```

DeveloperActivity.java

```

package com.example.vikasojha.quizbee;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class DeveloperActivity extends AppCompatActivity
{
    Button btnRestart;

    @Override
    protected void onCreate(Bundle savedInstanceState)

```

```

{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_developer);

    btnRestart = (Button) findViewById(R.id.button4);

    btnRestart.setOnClickListener(new View.OnClickListener()
    {
        @Override
        public void onClick(View v)
        {
            Intent in2 = new
Intent(getApplicationContext(),MainActivity.class);
            startActivity(in2);
        }
    });
}
}

```

BackgroundColor.java

```

package com.example.vikasojha.quizbee;
import android.graphics.Color;
/**
 * Created by Sushant on 23-11-2016.
 */
import java.util.Random;
public class BackgroundColor
{
    private String[] mColors = {
        "#39add1", // light blue
        "#3079ab", // dark blue
        "#c25975", // mauve
        "#e15258", // red
        "#f9845b", // orange
        "#838cc7", // lavender
        "#7d669e", // purple
        "#53bbb4", // aqua
        "#51b46d", // green
        "#e0ab18", // mustard
        "#637a91", // dark gray
        "#f092b0", // pink
        "#b7c0c7" // light gray}
    };
    public int getColor()
    {
        //Randomly generate a color
        String color;
        Random randomGenerator = new Random();
        int randomNumber = randomGenerator.nextInt(mColors.length);
        color = mColors[randomNumber];
        int colorAsInt;
        colorAsInt = Color.parseColor(color);
        return colorAsInt;
    }
}

```

strings.xml

```
<resources>
    <string name="app_name">QuizApp</string>
    <string name="your_score">Your Score</string>
    <string name="yugesh_verma">Yugesh Verma</string>
    <string
name="projectworldsofficial_gmail_com">projectworldsofficial@gmail.com</string>
    <string name="gajendra_pradhan">Gajendra Pradhan</string>
    <string name="gajenpradhan18_gmail_com">Gajenpradhan18@gmail.com</string>
    <string name="quizapp">QuizApp</string>
</resources>
```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.vikasojha.quizbee">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity android:name=".QuestionsActivity">
            <intent-filter>
                <action
android:name="com.example.vikasojha.quizbee.QuestionsActivity" />

                <category android:name="android.intent.category.DEFAULT" />
            </intent-filter>
        </activity>
        <activity android:name=".DeveloperActivity">
            <intent-filter>
                <action
android:name="com.example.vikasojha.quizbee.DeveloperActivity" />

                <category android:name="android.intent.category.DEFAULT" />
            </intent-filter>
        </activity>
        <activity android:name=".ResultActivity"></activity>
    </application>

</manifest>
```