**XML CODE (activity\_main.xml)**

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout 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:orientation="vertical"  
 android:visibility="visible"  
 android:background="#e1f5fe"  
 tools:context=".MainActivity"**>  
  
<**LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_weight="1"** >  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Quiz"  
 android:layout\_margin="20dp"  
 android:textSize="40dp"** />  
  
 <**TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Basic Information About Pakistan"  
 android:layout\_margin="20dp"  
 android:textSize="20dp"** />  
  
</**LinearLayout**>  
  
 <**LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_weight="2"  
 android:layout\_gravity="center"** >  
  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Email"  
 android:visibility="visible"  
 android:textSize="20dp"  
 android:layout\_margin="20dp"** />  
  
 <**EditText  
 android:id="@+id/email"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textEmailAddress"** />  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Password"  
 android:textSize="20dp"  
 android:layout\_margin="20dp"** />  
  
 <**EditText  
 android:id="@+id/pass"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPassword"** />  
  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_gravity="center"  
 android:layout\_weight="2"**>  
  
  
 <**Button  
 android:id="@+id/login"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center\_vertical|center\_horizontal"  
 android:text="Proceed"** />  
 </**LinearLayout**>  
  
</**LinearLayout**>

**XML CODE (activity\_quiz.xml)**

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 android:background="#e5ffff"** >  
 <**LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="15dp"  
  
 android:orientation="vertical"**>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textSize="35dp"  
 android:textStyle="bold"  
 android:fontFamily="sans-serif-condensed"  
 android:text="Checkout the right options"**/>  
 </**LinearLayout**>  
  
 <**ScrollView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="48dp"  
 android:background="#e1f5fe"**>  
  
 <**LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="1. What is the meaning of Pakistan"**/>  
 <**RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_margin="20dp"**>  
 <**RadioButton android:id="@+id/a1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Muslim Land"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/b1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Land of five Rivers"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/c1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Holy Land"  
 android:onClick="onRadioButtonClicked"**/>  
  
 </**RadioGroup**>  
  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="2. Who is the first Governor General of Pakistan "**/>  
 <**RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_margin="20dp"**>  
 <**RadioButton android:id="@+id/a2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Muhammad Ali Jinnah"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/b2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Liaquat Ali Khan"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/c2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Ayub Khan"  
 android:onClick="onRadioButtonClicked"**/>  
  
 </**RadioGroup**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="3. Pakistan won the Cricket World Cup in ?"**/>  
 <**RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_margin="20dp"**>  
 <**RadioButton android:id="@+id/a3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="1992"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/b3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="1987"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/c3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="1996"  
 android:onClick="onRadioButtonClicked"**/>  
  
 </**RadioGroup**>  
  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="4. When did Pakistan become a Republic?"**/>  
 <**RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_margin="20dp"**>  
 <**RadioButton android:id="@+id/a4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="14/08/1947"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/b4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="23/03/1956"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/c4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="16/12/1971"  
 android:onClick="onRadioButtonClicked"**/>  
  
 </**RadioGroup**>  
  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="5. Who designed Pakistan’s national flag?"**/>  
 <**RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_margin="20dp"**>  
 <**RadioButton android:id="@+id/a5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Fatima Jinnah"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/b5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Ameer-ud-din Khidwai"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/c5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Wali Khan"  
 android:onClick="onRadioButtonClicked"**/>  
  
 </**RadioGroup**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="6. Who wrote Tarana-e-Pakistan?"**/>  
 <**RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_margin="20dp"**>  
 <**RadioButton android:id="@+id/a6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hafeez Jallundhari"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/b6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Abdul Rab Nishtar"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/c6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Jagannath Azad"  
 android:onClick="onRadioButtonClicked"**/>  
  
 </**RadioGroup**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="7. Pakistan’s film industry known?"**/>  
 <**RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_margin="20dp"**>  
 <**RadioButton android:id="@+id/a7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Bollywood"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/b7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hollywood"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/c7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Lollywood"  
 android:onClick="onRadioButtonClicked"**/>  
  
 </**RadioGroup**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="8. Which is the national animal of Pakistan?"**/>  
 <**RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_margin="20dp"**>  
 <**RadioButton android:id="@+id/a8"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Markhor"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/b8"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Bear"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/c8"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Lion"  
 android:onClick="onRadioButtonClicked"**/>  
  
 </**RadioGroup**>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="9. Which is the national bird of Pakistan?"**/>  
 <**RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_margin="20dp"**>  
 <**RadioButton android:id="@+id/a9"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Eagle"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/b9"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Crow"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/c9"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Chakor"  
 android:onClick="onRadioButtonClicked"**/>  
  
 </**RadioGroup**>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="10. Which is the national language of Pakistan?"**/>  
 <**RadioGroup xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_margin="20dp"**>  
 <**RadioButton android:id="@+id/a10"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="English"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/b10"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Urdu"  
 android:onClick="onRadioButtonClicked"**/>  
 <**RadioButton android:id="@+id/c10"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Punjabi"  
 android:onClick="onRadioButtonClicked"**/>  
  
 </**RadioGroup**>  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Submit"  
 android:layout\_gravity="center\_vertical|center\_horizontal"  
 android:layout\_margin="30dp"**/>  
 </**LinearLayout**>  
 </**ScrollView**>  
</**LinearLayout**>

**JAVA CODE (Activity Main)**

**package** com.example.quizzapp;  
  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.content.SharedPreferences;  
**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;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 **public static final** String ***login*** = **"log"**;  
 **public static final** String ***email*** = **"em"**;  
 **public static final** String ***pass*** = **"ps"**;  
 **public static final** String ***MyPREFERENCES***=**"MyPrefs"**;  
 SharedPreferences **sharedpreferences**;  
 EditText **em**,**ps**;  
 Button **log**;  
  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **em** =(EditText)findViewById(R.id.***email***);  
 **ps** = (EditText)findViewById(R.id.***pass***);  
 **log**= (Button)findViewById(R.id.***login***);  
 **sharedpreferences**=getSharedPreferences(***MyPREFERENCES***, Context.***MODE\_PRIVATE***);  
 String val=**sharedpreferences**.getString(***email***, **null**);  
  
 **if**(val!=**null**)  
 {  
 Intent i=**new** Intent(getApplicationContext(), MainActivity.**class**);  
 i.putExtra(**"Name"**, val);  
 startActivity(i);  
 }  
 **log**.setOnClickListener(**new** View.OnClickListener() {  
  
 **public void** onClick(View arg0) {  
 String name=**em**.getText().toString();  
 String password=**ps**.getText().toString();  
 **if**(name.equals(**""**) || ***pass***.equals(**""**))  
 {  
 Toast.*makeText*(getApplicationContext(), **"login details Empty.!"**, Toast.***LENGTH\_LONG***).show();  
 **return**;  
 }  
 SharedPreferences.Editor editor=**sharedpreferences**.edit();  
 editor.putString(***email***, name);  
 editor.putString(***pass***, password);  
 editor.commit();  
 Intent i=**new** Intent(getApplicationContext(),MainActivity.**class**);  
 i.putExtra(**"Name"**, name);  
 startActivity(i);  
  
 }  
 });  
 }}

**JAVA CODE (Quiz)**

**package** com.example.quizzapp;  
  
**import** android.content.Context;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.util.Log;  
**import** android.view.Gravity;  
**import** android.view.WindowManager;  
**import** android.widget.EditText;  
**import** android.widget.RadioButton;  
**import** android.widget.Toast;  
  
**public class** Quiz **extends** AppCompatActivity {  
  
 **private static final** String ***LOG\_TAG*** = MainActivity.**class**.getSimpleName();  
 RadioButton **c1**;  
 RadioButton **a2**;  
 RadioButton **a3**;  
 RadioButton **b4**;  
 RadioButton **b5**;  
 RadioButton **a6**;  
 RadioButton **c7**;  
 RadioButton **a8**;  
 RadioButton **c9**;  
 RadioButton **b10**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_quiz***);  
  
 **this**.getWindow().setSoftInputMode(WindowManager.LayoutParams.***SOFT\_INPUT\_STATE\_ALWAYS\_HIDDEN***);  
  
  
 **public void** submitAnswers(View view) {  
  
 CharSequence resultsDisplay;  
 Log.*e*(***LOG\_TAG***, **" "** + **this**.findViewById(R.id.***a3***));  
 **int** answer1\_score;  
 **int** answer2\_score;  
 **int** answer3\_score;  
 **int** answer4\_score;  
 **int** answer5\_score;  
 **int** answer6\_score;  
 **int** answer7\_score;  
 **int** answer8\_score;  
 **int** answer9\_score;  
 **int** answer10\_score;  
 **int** final\_score;  
  
   
 Boolean answer1;  
  
 **c1** = (RadioButton) **this**.findViewById(R.id.***c1***);  
 answer1 = **c1**.isChecked();  
 **if** (answer1) {  
 answer1\_score = 1;  
 } **else** {  
 answer1\_score = 0;  
 }  
   
 Boolean answer2;  
  
 **a2** = (RadioButton) **this**.findViewById(R.id.***a2***);  
 answer2 = **a2**.isChecked();  
 **if** (answer2) {  
 answer2\_score = 1;  
 } **else** {  
 answer2\_score = 0;  
 }  
   
 Boolean answer3;  
  
 **a3** = (RadioButton) **this**.findViewById(R.id.***a3***);  
 answer3 = **a3**.isChecked();  
 **if** (answer3) {  
 answer3\_score = 1;  
 } **else** {  
 answer3\_score = 0;  
 }  
   
 Boolean answer4;  
  
 **b4** = (RadioButton) **this**.findViewById(R.id.***b4***);  
 answer4 = **b4**.isChecked();  
 **if** (answer4) {  
 answer4\_score = 1;  
 } **else** {  
 answer4\_score = 0;  
 }  
   
 Boolean answer5;  
 **b5** = (RadioButton) **this**.findViewById(R.id.***b5***);  
 answer5 = **b5**.isChecked();  
 **if** (answer5) {  
 answer5\_score = 1;  
 } **else** {  
 answer5\_score = 0; }  
   
 Boolean answer6;  
 **a6** = (RadioButton) **this**.findViewById(R.id.***a6***);  
 answer6 = **a6**.isChecked();  
 **if** (answer6) {  
 answer6\_score = 1;  
 } **else** {  
 answer6\_score = 0; }  
   
 Boolean answer7;  
 **c7** = (RadioButton) **this**.findViewById(R.id.***c7***);  
 answer7 = **c7**.isChecked();  
 **if** (answer7) {  
 answer7\_score = 1;  
 } **else** {  
 answer7\_score = 0; }  
   
 Boolean answer8;  
 **a8** = (RadioButton) **this**.findViewById(R.id.***a8***);  
 answer8 = **a8**.isChecked();  
 **if** ( answer8 ) {  
 answer8\_score = 1;  
 } **else** {  
 answer8\_score = 0;  
 }  
   
 Boolean answer9;  
 **c9** = (RadioButton) **this**.findViewById(R.id.***c9***);  
 answer9 = **c9**.isChecked();  
 **if** (answer9) {  
 answer9\_score = 1;  
 } **else** {  
 answer9\_score = 0;  
 }  
   
 Boolean answer10;  
 **b10** = (RadioButton) **this**.findViewById(R.id.***b10***);  
 answer10 = **b10**.isChecked();  
 **if** (answer10) {  
 answer10\_score = 1;  
 } **else** {  
 answer10\_score = 0;  
 }  
   
 final\_score = answer1\_score + answer2\_score + answer3\_score + answer4\_score + answer5\_score +  
 answer6\_score + answer7\_score + answer8\_score + answer9\_score + answer10\_score;  
  
 **if** (final\_score == 10) {  
 resultsDisplay = **"Perfect! You scored 10 out of 10"**;  
 } **else** {  
 resultsDisplay = **"Try again. You scored "** + final\_score + **" out of 10"**;  
 }  
  
 Context context = getApplicationContext();  
 **int** duration = Toast.***LENGTH\_LONG***;  
 Toast toast = Toast.*makeText*(context, resultsDisplay, duration);  
 toast.setGravity(Gravity.***CENTER***, 0, 0);  
 toast.show();  
 }  
 }  
  
}

