

## **MC Lab 9. Write a Program for simple quiz competition**

### **Android/other**

Name: Sameer Gupta

Roll no.: 252010036

#### **XML Code:**

##### **activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/t1"
        android:textSize="35dp"
        android:textStyle="bold"
        android:layout_width="414dp"
        android:layout_height="150dp"
        android:layout_marginTop="56dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/b1"
```

```
        android:onClick="check"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

    app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.499" />

<Button
    android:id="@+id/b2"
    android:onClick="check"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"

    app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.592" />

<Button
    android:id="@+id/b3"
    android:onClick="check"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"

    app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.683" />

<Button
    android:id="@+id/b4"
    android:onClick="check"
```

```
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

    app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.767" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

### **result\_activity.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout

    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"
    tools:context=".result">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="80dp"
        android:layout_marginTop="188dp"
        android:text="Correct:"
        android:textSize="35dp"
        android:textStyle="bold"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

```
<TextView
    android:id="@+id/correct"
    android:layout_width="100dp"
    android:layout_height="50dp"
    android:layout_marginStart="276dp"
    android:layout_marginTop="188dp"
    android:textSize="35dp"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="80dp"
    android:layout_marginTop="352dp"
    android:text="Wrong:"
    android:textSize="35dp"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<TextView
    android:id="@+id/wrong"
    android:layout_width="100dp"
    android:layout_height="50dp"
    android:layout_marginStart="276dp"
    android:layout_marginTop="356dp"
    android:textSize="35dp"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

## **Java Code:**

### **MainActivity.java**

```
package com.example.quiz;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    TextView t1;
    Button b1,b2,b3,b4;

    int flag = 0;
    int correct = 0;
    int wrong = 0;

    String questions[] = {"Who is the President of India?", "Who is the Captain of Indian Cricket team?", "Who is the owner of Reliance?", "Who founded Flipkart?"};
    String options[][] = {{ "Narendra Modi", "Sashi Tharoor", "Arvind Kejriwal", "Ram Nath Kovind"}, {"Rohit Sharma", "Virat Kohli", "MS Dhoni", "KL Rahul"}, {"Ratan Tata", "Gautam Adani", "Mukesh Ambani", "Anil Ambani"}, {"Chetan Bhagat", "Anand Mahindra", "Sachin Bansal", "Ravish Kumar"}};
    String ans[] = {"Ram Nath Kovind", "Virat Kohli", "Mukesh Ambani", "Sachin Bansal"};

    @Override
    protected void onCreate(Bundle
```

```
savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    t1 = (TextView) findViewById(R.id.t1);
    b1 = (Button) findViewById(R.id.b1);
    b2 = (Button) findViewById(R.id.b2);
    b3 = (Button) findViewById(R.id.b3);
    b4 = (Button) findViewById(R.id.b4);

    make();
}

public void make()
{
    t1.setText(questions[flag]);
    b1.setText(options[flag][0]);
    b2.setText(options[flag][1]);
    b3.setText(options[flag][2]);
    b4.setText(options[flag][3]);
}

public void check(View v)
{
    Button b = (Button) findViewById(v.getId());

    if((b.getText().toString()).equals(ans[flag]))
    {
        correct++;
    }
    else
    {
        wrong++;
    }

    flag++;

    if(flag <= questions.length - 1)
    {
```

```
        make();
    }
    else
    {
        Intent intent = new
Intent(MainActivity.this, result.class);
        Bundle bundle = new Bundle();
        bundle.putString("Correct", correct +
"");
        bundle.putString("Wrong", wrong + "");
        intent.putExtras(bundle);
        startActivity(intent);

    }
}
```

### **result.java**

```
package com.example.quiz;

import android.os.Bundle;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class result extends AppCompatActivity {

    TextView c, w;

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

        Bundle extras = getIntent().getExtras();

        String correct = extras.getString("Correct");
        String wrong = extras.getString("Wrong");
```

```
c = (TextView) findViewById(R.id.correct);  
w = (TextView) findViewById(R.id.wrong);  
  
c.setText(correct);  
w.setText(wrong);  
}  
}
```

**OUTPUT:**



