

MainActivity

```
package com.example.myapplication;

import android.app.AlertDialog;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity implements View.OnClickListener,
View.OnLongClickListener {

    public TextView question;
    public Button optionOne, optionTwo, optionThree, optionFour, next, previous, hint ;

    public int index, score = 0;
    int totalques = Questions.Quest.length;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
            Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
            return insets;
        });
        question = findViewById(R.id.question);
        optionOne = findViewById(R.id.optionOne);
        optionTwo = findViewById(R.id.optionTwo);
        optionThree = findViewById(R.id.optionThree);
        optionFour = findViewById(R.id.optionFour);
        next = findViewById(R.id.next);
        previous = findViewById(R.id.prev);
        hint = findViewById(R.id.hint);

        optionOne.setOnClickListener(this);
        optionTwo.setOnClickListener(this);
        optionThree.setOnClickListener(this);
        optionFour.setOnClickListener(this);
        next.setOnClickListener(this);
        previous.setOnClickListener(this);
        hint.setOnClickListener(this);
        hint.setOnLongClickListener(this);

        LoadQuestions(index);
    }

    @Override
    public void onClick(View v) {
        Button option = (Button) v;
        String x = option.getText().toString();

        if (option.getId() == R.id.optionOne || option.getId() == R.id.optionTwo ||
            option.getId() == R.id.optionThree || option.getId() == R.id.optionFour) {
            if (x.equals(Questions.answer[index])) {
                option.setBackgroundColor(Color.GREEN);
            }
        }
    }
}
```

```

        score++;
    }
    else {
        option.setBackgroundColor(Color.RED);
    }
}
if (option.getId() == R.id.next) {
    index++;
    LoadQuestions(index);
    clearans();
}

if (option.getId() == R.id.prev) {
    index--;
    LoadQuestions(index);
    clearans();
}

if (option.getId() == R.id.hint) {
    Toast.makeText(this, "Google it 🤖!", Toast.LENGTH_SHORT).show();
}
}

public void LoadQuestions(int index) {

    if (totalques == index || index < 0) {
        System.out.println("index");
        endQuiz();
        return;
    }

    question.setText(Questions.Quest[index]);
    optionOne.setText(Questions.choice[index][0]);
    optionTwo.setText(Questions.choice[index][1]);
    optionThree.setText(Questions.choice[index][2]);
    optionFour.setText(Questions.choice[index][3]);

}

public void endQuiz() {
    new AlertDialog.Builder(this).setTitle("End of Quiz")
        .setMessage(" You answered= "+score+"/"+totalques+" Correct")
        .setPositiveButton("Restart", (dialog, which) -> restart())
        .show();
}

public void restart() {
    LoadQuestions(0);
    index = 0;
    score = 0;
    System.out.println("index");
    Toast.makeText(this, "Lets try again", Toast.LENGTH_SHORT).show();
}

public void clearans() {
    optionOne.setBackgroundColor(Color.WHITE);
    optionTwo.setBackgroundColor(Color.WHITE);
    optionThree.setBackgroundColor(Color.WHITE);
    optionFour.setBackgroundColor(Color.WHITE);
}

@Override
public boolean onLongClick(View v) {
    Button hint = (Button) v;
    Toast.makeText(this, "Aishu is the best 🥰", Toast.LENGTH_LONG).show();
    return false;
}
}

```

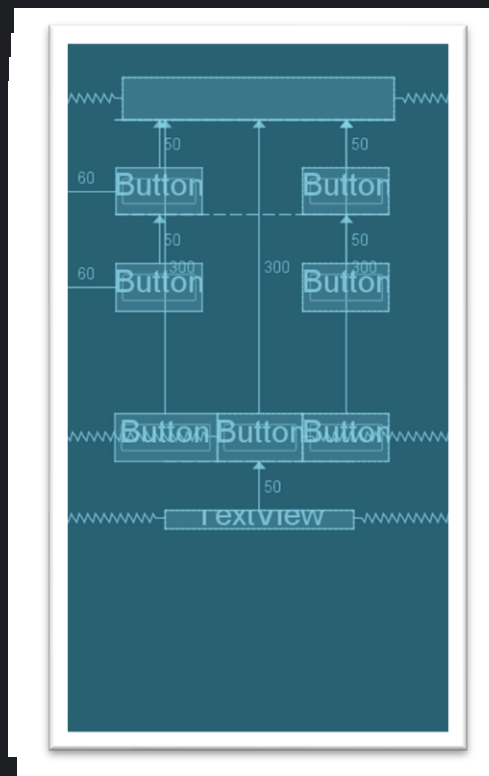
Question and Answers Java Class

```
package com.example.myapplication;

public class Questions {
    public static String Quest []={
        "Android studio is made by ?",
        "Which Language is this statement print('Aishu') ",
        "Which hardware is most needed for high end gaming ?",
        "Metro is constructed by ?",
        "Father of modern computer science"
    };
    public static String choice [][]={
        {"Oracle","Google","JetBrains","Reliance"},
        {"python","c++","Java","None"},
        {"GPU","CPU","Mouse","Keyboard"},
        {"LnT","Samsung","HUDA","Aditya"},
        {"Alan Turing","Charles Babbage","Tesla","Elon"}
    };
    public static String answer[]={
        "JetBrains","python","GPU","LnT","Alan Turing"
    };
}
```

MainActivity XML files, (Front End)

```
<?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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_alignParentLeft="false"
    android:layout_alignParentBottom="false"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/question"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="50dp"
        android:text="Aishwarya's Project"
        android:textSize="32dp"
        android:textAlignment="center"
    />
    <Button
        android:id="@+id/optionOne"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/question"
        android:layout_alignParentStart="true"
        android:layout_marginStart="60dp"
        android:layout_marginLeft="60dp"
        android:layout_marginTop="50dp"
        android:text="A"/>
    <Button
        android:id="@+id/optionTwo"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/question"
        android:layout_marginLeft="250dp"
        android:layout_marginTop="50dp"
        android:text="B"
    />
```



```

        <Button
            android:id="@+id/optionThree"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@id/optionOne"
            android:layout_alignParentStart="true"
            android:layout_marginStart="60dp"
            android:layout_marginLeft="60dp"
            android:layout_marginTop="50dp"
            android:text="C"/>
        <Button
            android:id="@+id/optionFour"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@id/optionOne"
            android:layout_marginLeft="250dp"
            android:layout_marginTop="50dp"
            android:text="D"
        />
        <Button
            android:id="@+id/prev"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@+id/question"
            android:layout_marginTop="300dp"
            android:layout_toStartOf="@+id/hint"
            android:text="Previous"
        />
        <Button
            android:id="@+id/hint"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@+id/question"
            android:layout_marginTop="300dp"
            android:layout_centerHorizontal="true"
            android:text="hint"
        />
        <Button
            android:id="@+id/next"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@+id/question"
            android:layout_marginTop="300dp"
            android:layout_toEndOf="@+id/hint"
            android:text="Next"
        />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Hand Crafted with ❤️ by Aishu"
            android:id="@+id/creatorname"
            android:layout_below="@+id/hint"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="50dp"
        />

</RelativeLayout>

```

