**PRACTICAL NO.** :- 6

# **Q. Create Quiz with their Answer Using Android Studio.**

**XML File :-**

<?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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/teal\_200"  
 tools:context=".MainActivity" >  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Total Question "  
 android:id="@+id/total\_question"  
 android:layout\_centerHorizontal="true"  
 android:textSize="20dp" />  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/question"  
 android:textStyle="bold"  
 android:text="This will be the question"  
 android:textColor="@color/white"  
 android:textSize="24dp"  
 android:textAlignment="center"  
 android:layout\_margin="20dp"  
 android:layout\_above="@+id/choices\_layout"/>  
  
  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/choices\_layout"  
 android:layout\_centerInParent="true"  
 android:orientation="vertical"  
 tools:ignore="InvalidId">  
  
  
 <Button  
 android:id="@+id/ans\_A"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="@color/white"  
 android:text="Ans A"  
 android:layout\_gravity="center"  
 android:textColor="@color/black" />  
  
  
 <Button  
 android:id="@+id/ans\_B"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="@color/white"  
 android:text="Ans B"  
 android:layout\_gravity="center"  
 android:textColor="@color/black" />  
  
 <Button  
 android:id="@+id/ans\_C"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="@color/white"  
 android:text="Ans C"  
 android:layout\_gravity="center"  
 android:textColor="@color/black" />  
  
 <Button  
 android:id="@+id/ans\_D"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="@color/white"  
 android:text="Ans D"  
 android:layout\_gravity="center"  
 android:textColor="@color/black" />  
  
  
 </LinearLayout>  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/submit\_btn"  
 android:text="Submit"  
 android:layout\_below="@id/choices\_layout"  
 android:layout\_marginTop="40dp" />  
  
  
  
  
</RelativeLayout>

**Main JAVA File :-**

package com.example.practicalno6;  
  
import android.graphics.Color;  
import android.support.v7.app.AlertDialog;  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity implements View.OnClickListener{  
  
 TextView totalQuestionsTextView;  
 TextView QuestionsTextView;  
 Button ansA,ansB,ansC,ansD;  
 Button submitBtn;  
  
 int score = 0;  
 int totalQuestino= QuestionAnswer.*question*.length;  
 int currentQuestionIndex = 0;  
 String selectAnswer= "";  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 totalQuestionsTextView= findViewById(R.id.*total\_question*);  
 QuestionsTextView = findViewById(R.id.*question*);  
 ansA = findViewById(R.id.*ans\_A*);  
 ansB = findViewById(R.id.*ans\_B*);  
 ansC = findViewById(R.id.*ans\_C*);  
 ansD = findViewById(R.id.*ans\_D*);  
 submitBtn= findViewById(R.id.*submit\_btn*);  
  
 ansA.setOnClickListener(this);  
 ansB.setOnClickListener(this);  
 ansC.setOnClickListener(this);  
 ansD.setOnClickListener(this);  
 submitBtn.setOnClickListener(this);  
  
 totalQuestionsTextView.setText("Total question: "+totalQuestino);  
  
 laodNewQuestion();  
  
  
  
  
 }  
  
 @Override  
 public void onClick(View view) {  
  
 ansA.setBackgroundColor(Color.*WHITE*);  
 ansB.setBackgroundColor(Color.*WHITE*);  
 ansC.setBackgroundColor(Color.*WHITE*);  
 ansD.setBackgroundColor(Color.*WHITE*);  
  
 Button clickButton = (Button) view;  
 if(clickButton.getId()==R.id.*submit\_btn*) {  
 currentQuestionIndex++;  
 laodNewQuestion();  
 if(selectAnswer.equals(QuestionAnswer.*correctAnswer*[currentQuestionIndex])) {  
 score++;  
 }  
  
  
 }else {  
 //choices button clicked  
 selectAnswer = clickButton.getText().toString();  
 clickButton.setBackgroundColor(Color.*MAGENTA*);  
  
  
  
  
 }  
 }  
 void laodNewQuestion(){  
  
 if(currentQuestionIndex == totalQuestino){  
 finishQuiz();  
 return;  
 }  
  
 QuestionsTextView.setText(QuestionAnswer.*question*[currentQuestionIndex]);  
 ansA.setText(QuestionAnswer.*choices*[currentQuestionIndex][0]);  
 ansB.setText(QuestionAnswer.*choices*[currentQuestionIndex][1]);  
 ansC.setText(QuestionAnswer.*choices*[currentQuestionIndex][2]);  
 ansD.setText(QuestionAnswer.*choices*[currentQuestionIndex][3]);  
  
 }  
  
 void finishQuiz() {  
 String passStatus = "";  
 if (score > totalQuestino \* 0.60) {  
 passStatus = "Passed";  
 } else  
 passStatus = "Failed";  
 }  
  
  
  
  
 }

**QuestionAnswer.JAVA File:-**

package com.example.practicalno6;  
  
public class QuestionAnswer {  
  
 public static String *question*[]={  
 "Who known as the father of compuer?",  
 "What is the brain of computer system called?",  
 "What Does CPU stands for?",  
 "Which of following include in Computer System?",  
 "Which of following Smallest unit of memory?"  
};  
  
  
  
  
 public static String *choices*[][]={  
 {"Dennis Retchie","Bill Gates","Charles Babbage","James Goslin"},  
 {"RAM","CPU","GPU","None of above"},  
 {"Central Processing Unit","Control Proceessing Unit","Computer Processing Unit","Computer Programming Unit"},  
 {"Hardware","Peripheral Device","Software","All of Above"},  
 {"Bite","Bit","Nibble","Kb"}  
  
 };  
 public static String *correctAnswer*[]={  
 "Charles Babbage",  
 "CPU",  
 "Central Processing Unit",  
 "All of Above",  
 "Bit"  
  
  
};  
}

**OUTPUT:-**

