**PR-12**

**12 Develop program to show a QUIZ Question with 4 options on using Radio Button. On the correct answer selection show toast.**

**XML Code**

<?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:padding="20dp"  
 android:gravity="center">  
  
 <!-- Question 1 -->  
 <TextView  
 android:id="@+id/question1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Q: Which of the following is a popular Object-Oriented programming language?"  
 android:textSize="18sp"  
 android:layout\_marginBottom="20dp"  
 android:gravity="center"/>  
  
 <RadioGroup  
 android:id="@+id/optionsGroup1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_marginBottom="30dp">  
  
 <RadioButton  
 android:id="@+id/optionA1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="C" />  
  
 <RadioButton  
 android:id="@+id/optionB1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Java" />  
  
 <RadioButton  
 android:id="@+id/optionC1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="HTML" />  
  
 <RadioButton  
 android:id="@+id/optionD1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="CSS" />  
 </RadioGroup>  
  
 <Button  
 android:id="@+id/checkAnswerButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Check Answer" />  
  
</LinearLayout>

**Java Code**

package com.example.pr12\_quiz\_ratiobutton;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.RadioButton;  
import android.widget.RadioGroup;  
import android.widget.Toast;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 private RadioGroup optionsGroup1;  
 private Button checkAnswerButton;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 optionsGroup1 = findViewById(R.id.*optionsGroup1*);  
 checkAnswerButton = findViewById(R.id.*checkAnswerButton*);  
  
 checkAnswerButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 int selectedOptionId = optionsGroup1.getCheckedRadioButtonId();  
  
 if (selectedOptionId != -1) {  
 RadioButton selectedOption = findViewById(selectedOptionId);  
  
 if (selectedOption.getText().equals("Java")) {  
 // Correct answer  
 Toast.*makeText*(MainActivity.this, "Correct! Java is an Object-Oriented language.", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 // Incorrect answer  
 Toast.*makeText*(MainActivity.this, "Incorrect! The correct answer is Java.", Toast.*LENGTH\_SHORT*).show();  
 }  
 } else {  
 // No option selected  
 Toast.*makeText*(MainActivity.this, "Please select an option", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
 }  
}