**AIM: Demonstrate use of dialogs and notification.**

**CODE:**

MainActivity.java

| package com.example.practical6\_b3\_45;    import android.app.AlertDialog; import android.app.NotificationChannel; import android.app.NotificationManager; import android.app.PendingIntent; import android.app.TaskStackBuilder; import android.content.Context; import android.content.DialogInterface; import android.content.Intent; import android.os.Build; 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; import androidx.core.app.NotificationCompat;    public class MainActivity extends AppCompatActivity {    private RadioGroup radioGroup1, radioGroup2, radioGroup3; private Button submitButton;  @Override  protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*activity\_main*);    radioGroup1 = findViewById(R.id.*radioGroup1*); radioGroup2 = findViewById(R.id.*radioGroup2*); radioGroup3 = findViewById(R.id.*radioGroup3*); submitButton = findViewById(R.id.*button*); |
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| submitButton.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) { showConfirmationDialog();  }  });  }  private void showConfirmationDialog() {  AlertDialog.Builder builder = new AlertDialog.Builder(this); builder.setTitle("Confirmation");  builder.setMessage("Are you sure you want to submit?");  builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {  @Override  public void onClick(DialogInterface dialog, int which) { int score = calculateScore(); showNotification(score);  } });  builder.setNegativeButton("Cancel", new DialogInterface.OnClickListener() {  @Override  public void onClick(DialogInterface dialog, int which) { dialog.dismiss();  } });  builder.create().show();  }  private int calculateScore() { int score = 0;  if (((RadioButton) findViewById(R.id.*correct1*)).isChecked()) { score += 4;  }  if (((RadioButton) findViewById(R.id.*correct2*)).isChecked()) { score += 4;  }  if (((RadioButton) findViewById(R.id.*correct3*)).isChecked()) { score += 4;  }  return score;  }  private void showNotification(int score) {  // Notification Channel ID is required for Android Oreo and above  String channelId = "quiz\_notification\_channel";  CharSequence channelName = "Quiz Notification Channel"; int importance = NotificationManager.*IMPORTANCE\_DEFAULT*;  NotificationManager notificationManager = getSystemService(NotificationManager.class);    // Create Notification Channel for Android Oreo and above if (Build.VERSION.*SDK\_INT* >= Build.VERSION\_CODES.*O*) {  NotificationChannel channel = new NotificationChannel(channelId, channelName, importance);  notificationManager.createNotificationChannel(channel); }    // Create an intent to open Activity2  Intent resultIntent = new Intent(this, Activity2.class); resultIntent.putExtra("score", score);    // Create a task stack builder to maintain navigation from the notification  TaskStackBuilder stackBuilder = TaskStackBuilder.*create*(this); stackBuilder.addNextIntentWithParentStack(resultIntent); PendingIntent pendingIntent = stackBuilder.getPendingIntent(0,  PendingIntent.*FLAG\_UPDATE\_CURRENT*); |
| // Build the notification  NotificationCompat.Builder builder = new NotificationCompat.Builder(this, channelId)  .setContentTitle("Test Results") .setContentText("Your test results are ready. Score: " + score)  .setSmallIcon(R.mipmap.*ic\_launcher\_round*)  .setContentIntent(pendingIntent)  .setAutoCancel(true);    // Show the notification  notificationManager.notify(1, builder.build()); }    } |

# 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:id="@+id/main"  android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainActivity">    <TextView  android:id="@+id/textView" android:layout\_width="81dp" android:layout\_height="65dp" android:text="Quiz" android:textSize="40dp"  app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.457" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.006" />      <TextView  android:id="@+id/textView1" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Question 1 : 1+1"  app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.125" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.109" />      <RadioGroup  android:id="@+id/radioGroup1" android:layout\_width="301dp" android:layout\_height="156dp"  app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.354" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.18"> |
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| <RadioButton  android:id="@+id/correct1" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="2" />    <RadioButton  android:id="@+id/radioButton2" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="3" />    <RadioButton  android:id="@+id/radioButton3" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="4" />    </RadioGroup>    <TextView  android:id="@+id/textView2" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="10-5"  app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.11" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.387" />    <RadioGroup  android:id="@+id/radioGroup2" android:layout\_width="301dp" android:layout\_height="156dp"  app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.354" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.523">    <RadioButton  android:id="@+id/correct2" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="5" />    <RadioButton  android:id="@+id/radioButton5" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="0" />    <RadioButton  android:id="@+id/radioButton6" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="-5" />  </RadioGroup>    <TextView  android:id="@+id/textView3" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" |
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android:text="5\*5"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.11" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.664" />

<RadioGroup

android:id="@+id/radioGroup3" android:layout\_width="301dp" android:layout\_height="156dp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.354" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.867">

<RadioButton android:id="@+id/correct3" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="25" />

<RadioButton

android:id="@+id/radioButton8" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="55" />

<RadioButton

android:id="@+id/radioButton9" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="10" />

</RadioGroup>

<Button

android:id="@+id/button" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Submit"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.44" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.994" /> </androidx.constraintlayout.widget.ConstraintLayout>

# Activity2.java

| package com.example.practical6\_b3\_45;    import android.os.Bundle; import android.widget.RadioGroup; import android.widget.TextView;    import androidx.appcompat.app.AppCompatActivity;    public class Activity2 extends AppCompatActivity {  @Override  protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_activity2*);    // Get the score from the intent  int score = getIntent().getIntExtra("score", 0);  // Display the score in a TextView  TextView scoreTextView = findViewById(R.id.*score*); scoreTextView.setText("Your score: " + score);  }  } |
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# Activity\_activity2.xml

| <?xml version="1.0" encoding="utf-8"?>  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" xmlns:tools="http://schemas.android.com/tools" android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:gravity="center" android:orientation="vertical" android:padding="16dp" tools:context=".Activity2">    <TextView android:id="@+id/score" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:textSize="24sp" android:textStyle="bold" android:gravity="center" android:text="Your score: " android:layout\_gravity="center"/>  </LinearLayout> |
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**OUTPUT:**







