XML

<?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="16dp"  
 android:gravity="center">  
  
 <!-- EditText to enter the number -->  
 <EditText  
 android:id="@+id/getnum"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter number"  
 android:inputType="number" />  
  
 <!-- Button to check palindrome -->  
 <Button  
 android:id="@+id/check"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Check Palindrome" />  
  
 <!-- TextView to display the result -->  
 <TextView  
 android:id="@+id/lbldisplay"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="18sp"  
 android:paddingTop="20dp" />  
  
</LinearLayout>

MAIN

package com.example.palindrome;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 // Declare the UI components  
 EditText getnum;  
 Button check;  
 TextView lbldisplay;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 getnum = findViewById(R.id.*getnum*);  
 check = findViewById(R.id.*check*);  
 lbldisplay = findViewById(R.id.*lbldisplay*);  
  
 // Set an OnClickListener on the check button  
 check.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 // Get the number entered by the user  
 String numString = getnum.getText().toString();  
  
 if (isPalindrome(numString)) {  
 lbldisplay.setText(numString + " is a palindrome.");  
 } else {  
 lbldisplay.setText(numString + " is not a palindrome.");  
 }  
 }  
 });  
 }  
  
 // Function to check if a string is a palindrome  
 private boolean isPalindrome(String num) {  
 // Remove any extra spaces and handle edge cases (empty input)  
 if (num.trim().isEmpty()) {  
 lbldisplay.setText("Please enter a valid number.");  
 return false;  
 }  
  
 // Check if the number is the same forward and backward  
 String reversed = new StringBuilder(num).reverse().toString();  
 return num.equals(reversed);  
 }  
}