

Java

package com.example.armstrong;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

private EditText no;

private Button b1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

no = findViewById(R.id.no);

b1 = findViewById(R.id.b1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String eno = no.getText().toString();

int temp = Integer.parseInt(eno);

int reversed = 0;

int original = temp;

while (temp != 0) {

int digit = temp % 10;

reversed = reversed +(digit\*digit\*digit);

temp = temp / 10;

}

if (reversed == original) {

Toast.makeText(MainActivity.this, "It is a Armstrong",

Toast.LENGTH\_SHORT).show();

} else {

Toast.makeText(MainActivity.this, "Not Armstrong",

Toast.LENGTH\_SHORT).show();

}

}

});

}

}

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:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<EditText

android:id="@+id/no"

android:layout\_width="250dp"

android:layout\_height="85dp"

android:layout\_marginTop="236dp"

android:ems="10"

android:hint="Enter number"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.497"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="41dp"

android:text="Button"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/no"

app:layout\_constraintVertical\_bias="0.0" />

</androidx.constraintlayout.widget.ConstraintLayout>