**Practical-4:**

**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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <Button  
 android:id="@+id/LengthConvert"  
 android:layout\_width="258dp"  
 android:layout\_height="107dp"  
 android:layout\_marginTop="200dp"  
 android:text="@string/LengthConvert"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.503"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/CurrencyConvert"  
 android:layout\_width="258dp"  
 android:layout\_height="107dp"  
 android:layout\_marginBottom="200dp"  
 android:text="@string/CurrencyConvert"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/LengthConvert"  
 app:layout\_constraintVertical\_bias="1.0" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java:**

package com.example.practical\_4;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;9  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
 Button b1 = (Button) findViewById(R.id.LengthConvert);  
 Button b2 = (Button) findViewById(R.id.CurrencyConvert);  
  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent i1 = new Intent(getApplicationContext(), LengthConvert.class);  
 startActivity(i1);  
 }  
 });  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent i2 = new Intent(getApplicationContext(), CurrencyConvert.class);  
 startActivity(i2);  
 }  
 });  
 }  
}

**activity\_length\_convert.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=".LengthConvert">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="100dp"  
 android:text="@string/entertext"  
 android:textSize="34sp"  
 app:layout\_constraintEnd\_toStartOf="@+id/Meters"  
 app:layout\_constraintHorizontal\_bias="0.38"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <EditText  
 android:id="@+id/Meters"  
 android:layout\_width="187dp"  
 android:layout\_height="46dp"  
 android:layout\_marginTop="100dp"  
 android:layout\_marginEnd="28dp"  
 android:ems="10"  
 android:inputType="numberDecimal"  
 android:textSize="24sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:ignore="LabelFor,SpeakableTextPresentCheck"  
 android:importantForAutofill="no" />  
  
 <TextView  
 android:id="@+id/ResultLength"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="100dp"  
 android:text="@string/Initial"  
 android:textSize="34sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView" />  
  
 <Button  
 android:id="@+id/CovertLength"  
 android:layout\_width="298dp"  
 android:layout\_height="73dp"  
 android:layout\_marginTop="100dp"  
 android:text="@string/convert"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.495"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/ResultLength" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**LengthConvert.java:**

package com.example.practical\_4;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.annotation.SuppressLint;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class LengthConvert extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_length\_convert);  
  
 Button ConvertLength = (Button) findViewById(R.id.CovertLength);  
 EditText meters = (EditText)findViewById(R.id.Meters);  
 TextView tv1 = (TextView)findViewById(R.id.ResultLength);  
  
 ConvertLength.setOnClickListener(new View.OnClickListener() {  
 @SuppressLint("SetTextI18n")  
 @Override  
 public void onClick(View view) {  
 float input = Float.parseFloat(meters.getText().toString());  
 float inches = input \* 39.37f;  
 tv1.setText("Inches:" + inches);  
 }  
 });  
 }  
}

**activity\_currency\_convert.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=".CurrencyConvert">  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="100dp"  
 android:text="@string/entertext"  
 android:textSize="34sp"  
 app:layout\_constraintEnd\_toStartOf="@+id/USD"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <EditText  
 android:id="@+id/USD"  
 android:layout\_width="187dp"  
 android:layout\_height="46dp"  
 android:layout\_marginTop="100dp"  
 android:layout\_marginEnd="28dp"  
 android:ems="10"  
 android:inputType="numberDecimal"  
 android:textSize="24sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:ignore="LabelFor,SpeakableTextPresentCheck"  
 android:importantForAutofill="no" />  
  
 <TextView  
 android:id="@+id/Result"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="100dp"  
 android:text="@string/Initial"  
 android:textSize="34sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/USD" />  
  
 <Button  
 android:id="@+id/ConvertCurrency"  
 android:layout\_width="298dp"  
 android:layout\_height="73dp"  
 android:layout\_marginTop="100dp"  
 android:text="@string/convert"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.495"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/Result" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**CurrencyConvert.java:**

package com.example.practical\_4;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.annotation.SuppressLint;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class CurrencyConvert extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_currency\_convert);  
  
 Button ConvertLength = (Button) findViewById(R.id.ConvertCurrency);  
 EditText meters = (EditText)findViewById(R.id.USD);  
 TextView tv1 = (TextView)findViewById(R.id.Result);  
  
 ConvertLength.setOnClickListener(new View.OnClickListener() {  
 @SuppressLint("SetTextI18n")  
 @Override  
 public void onClick(View view) {  
 float input = Float.parseFloat(meters.getText().toString());  
 float inches = input \* 75;  
 tv1.setText("INR:" + inches);  
 }  
 });  
 }  
}

**Output:**

Graphical user interface, application

Description automatically generated A screenshot of a computer screen

Description automatically generated with low confidence A screenshot of a computer

Description automatically generated with low confidence