**Nadib Rana**

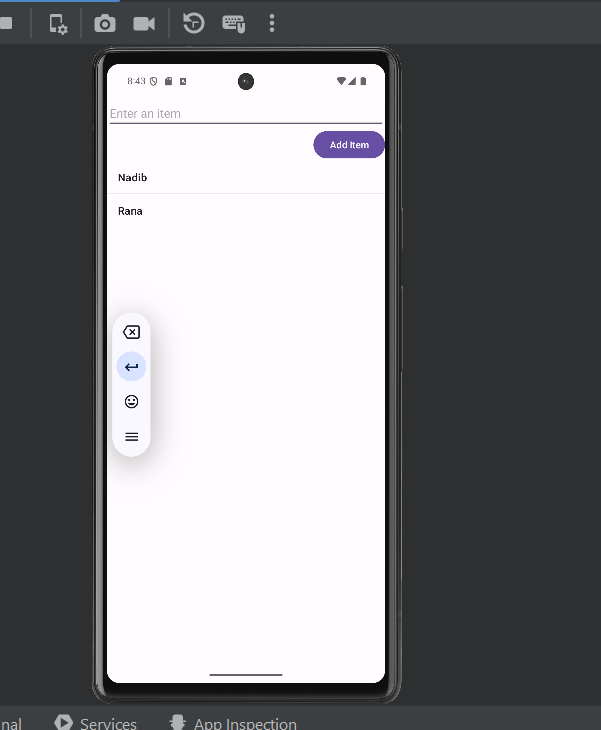
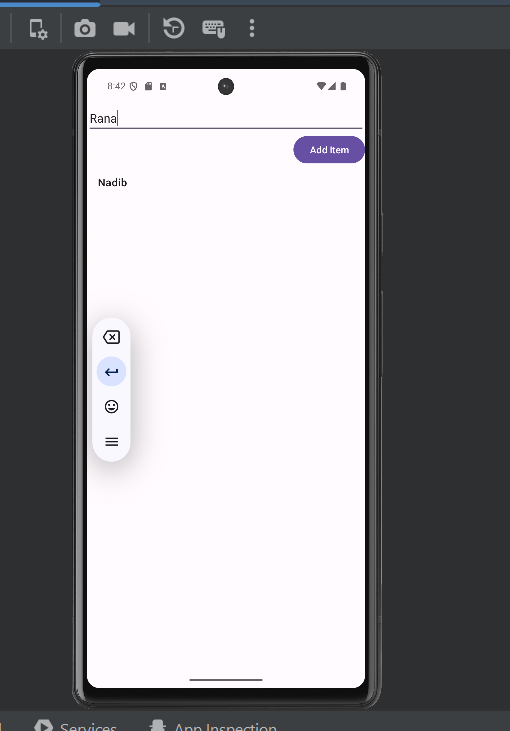
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| ***Activity\_main.java*** | ***activity\_main.xml*** |
| package com.example.labtaskfour;  import androidx.appcompat.app.AppCompatActivity;  import android.os.Bundle;  import android.view.View;  import android.widget.ArrayAdapter;  import android.widget.Button;  import android.widget.EditText;  import android.widget.ListView;  import java.util.ArrayList;  public class MainActivity extends AppCompatActivity {  EditText etInput;  Button btnAdd;  ListView listView;  ArrayList<String> itemList;  ArrayAdapter<String> adapter;  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.activity\_main);  // Initializing views  etInput = findViewById(R.id.etInput);  btnAdd = findViewById(R.id.btnAdd);  listView = findViewById(R.id.listView);  // Initializing the list and adapter  itemList = new ArrayList<>();  adapter = new ArrayAdapter<>(this, android.R.layout.simple\_list\_item\_1, itemList);  listView.setAdapter(adapter);  // Set up the button click listener to add items to the list  btnAdd.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  String newItem = etInput.getText().toString();  // Add the user input to the list and refresh the ListView  if (!newItem.isEmpty()) {  itemList.add(newItem);  adapter.notifyDataSetChanged(); // Refresh the ListView  etInput.setText(""); // Clear the input field after adding  }  }  });  }  } | <LinearLayout 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"  android:orientation="vertical"  tools:context=".MainActivity">  <!-- EditText for user input -->  <EditText  android:id="@+id/etInput"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:hint="Enter an item" />  <!-- Button to add input to the list -->  <Button  android:id="@+id/btnAdd"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Add Item"  android:layout\_gravity="right"  />  <!-- ListView to display dynamic list items -->  <ListView  android:id="@+id/listView"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content" />  </LinearLayout> |
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| ***MainActivity\_activite.java*** | ***MainActivity\_activite.xml*** |
| package com.example.myapplication;  import androidx.appcompat.app.AppCompatActivity;  import android.os.Bundle;  import android.view.View;  import android.widget.Button;  import android.widget.EditText;  import android.widget.TextView;  public class MainActivity extends AppCompatActivity {  private Button cToF;  private TextView result;  private EditText enterTemp;  double result1;  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.activity\_main);  // Referencing UI components  cToF = findViewById(R.id.cToF);  result = findViewById(R.id.result);  enterTemp = findViewById(R.id.enterTemp);  cToF.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  // Convert the input temperature from EditText to double  double temp = Double.parseDouble(enterTemp.getText().toString());  // Convert Celsius to Fahrenheit  result1 = (temp \* 1.8) + 32;  // Display the result  result.setText(String.valueOf(result1) + "°F");  }  });  }  } | <LinearLayout 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"  android:orientation="vertical"  tools:context=".MainActivity">  <TextView  android:id="@+id/textView"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="Temperature Converter"  android:textSize="30dp"  android:textColor="@android:color/holo\_red\_dark"  android:layout\_marginTop="40dp"/>  <EditText  android:id="@+id/enterTemp"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:ems="10"  android:inputType="numberDecimal"  android:hint="Enter Temperature"  android:textSize="28dp"  android:layout\_marginTop="30dp"/>  <Button  android:id="@+id/cToF"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Celcius to Fahrenheit"  android:background="@android:color/holo\_orange\_light"  android:textColor="@android:color/black"  android:layout\_gravity="center"  android:textAlignment="center"  android:layout\_marginTop="30dp"  android:layout\_marginBottom="10dp"/>  <TextView  android:id="@+id/result"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="’?’ degrees"  android:textAlignment="center"  android:textSize="30dp"/>  <TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Log In"  android:textSize="32sp"  android:textStyle="bold"  android:layout\_gravity="center"  android:layout\_marginBottom="32dp"/>  <Button  android:id="@+id/backButton"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Back to Login"  android:layout\_marginTop="16dp"/>  </LinearLayout> |

**OUTPUT:**

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