**PR-8**

**8. Develop a program implement bill payment system using EditText, Checkbox, Button.**

**XML Code**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:orientation="vertical"  
 android:padding="24dp"  
 android:gravity="center\_horizontal"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 <!-- Name -->  
 <EditText  
 android:id="@+id/nameEditText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Name"  
 android:inputType="textPersonName" />  
  
 <!-- Amount -->  
 <EditText  
 android:id="@+id/amountEditText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Amount"  
 android:inputType="numberDecimal"  
 android:layout\_marginTop="10dp" />  
  
 <!-- Bill Types -->  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Select Bill Type(s):"  
 android:textStyle="bold"  
 android:layout\_marginTop="15dp" />  
  
 <CheckBox  
 android:id="@+id/electricityCheckBox"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Electricity" />  
  
 <CheckBox  
 android:id="@+id/waterCheckBox"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Water" />  
  
 <CheckBox  
 android:id="@+id/internetCheckBox"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Internet" />  
  
 <!-- Submit Button -->  
 <Button  
 android:id="@+id/payButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Pay Bill"  
 android:layout\_marginTop="20dp" />  
</LinearLayout>

**Java Code**

package com.example.pr8\_bill\_payment;  
  
  
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import android.annotation.SuppressLint;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.\*;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText nameEditText, amountEditText;  
 CheckBox electricityCheckBox, waterCheckBox, internetCheckBox;  
 Button payButton;  
  
 @SuppressLint("MissingInflatedId")  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 // Link UI elements  
 nameEditText = findViewById(R.id.*nameEditText*);  
 amountEditText = findViewById(R.id.*amountEditText*);  
 electricityCheckBox = findViewById(R.id.*electricityCheckBox*);  
 waterCheckBox = findViewById(R.id.*waterCheckBox*);  
 internetCheckBox = findViewById(R.id.*internetCheckBox*);  
 payButton = findViewById(R.id.*payButton*);  
 TextView result = findViewById(R.id.*result*);  
  
 // Button click  
 payButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String name = nameEditText.getText().toString().trim();  
 String amount = amountEditText.getText().toString().trim();  
 StringBuilder services = new StringBuilder();  
  
 if (electricityCheckBox.isChecked()) services.append("Electricity ");  
 if (waterCheckBox.isChecked()) services.append("Water ");  
 if (internetCheckBox.isChecked()) services.append("Internet ");  
  
 if (name.isEmpty() || amount.isEmpty() || services.length() == 0) {  
 Toast.*makeText*(MainActivity.this, "Please enter all details and select at least one service", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 String message = "Payment Details:\nName: " + name +  
 "\nAmount: ₹" + amount +  
 "\nBill Type: " + services.toString().trim();  
 result.setText(message);  
   
 }  
 }  
 });  
 }  
}