Design an application to check whether the input number is Prime or not.

Applythe Concept of Intent to display your answer.

MainActivity.xml

<?xml version="1.0" encoding="utf-8"?>  
<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"  
 tools:context=".MainActivity"  
 android:orientation="vertical"  
 >  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="enetr no.1"  
 android:id="@+id/ed1"  
  
  
 ></EditText>  
  
 <Button  
 android:id="@+id/bt1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:onClick="cheak"  
 android:textStyle="bold"  
 android:text="Cheak Prime"  
 ></Button>  
  
</LinearLayout>

MainActivity.java

package com.example.menu;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
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 {  
 EditText t1;  
 Button b1;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 t1= findViewById(R.id.*ed1*);  
 b1= findViewById(R.id.*bt1*);  
  
 }  
  
 public void cheak ( View view)  
 {  
 String s= t1.getText().toString();  
 int n=Integer.*parseInt*(s);  
 boolean b=true;  
 for(int i=2;i<n;i++)  
 {  
 if(n%i==0)  
 b=false;  
  
 }  
 Intent i = new Intent(MainActivity.this,b.class);  
 if(b){  
  
 i.putExtra("key","yes");  
  
  
  
 }  
 else{  
 i.putExtra("key","no");  
 }  
 startActivity(i);  
 }  
}

b.xml

<?xml version="1.0" encoding="utf-8"?>  
<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"  
 tools:context=".b"  
 android:orientation="vertical"  
 >  
  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/tx1"  
 android:textStyle="bold"  
 android:textSize="100px"  
  
 ></TextView>  
  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/bt1"  
 android:onClick="back"  
 android:text="back"  
  
 ></Button>  
  
  
</LinearLayout>

b.java

package com.example.menu;  
  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
  
public class b extends AppCompatActivity {  
 TextView t1;  
 Button b1;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_b*);  
 t1=findViewById(R.id.*tx1*);  
 b1=findViewById(R.id.*bt1*);  
 Intent i2= getIntent();  
 String data= i2.getStringExtra("key");  
 t1.setText("RESULT: "+ data);  
  
 }  
  
 public void back(View view)  
 {  
 Intent i= new Intent(b.this, MainActivity.class);  
 startActivity(i);  
 }  
  
  
  
  
}