1. Ẩn thanh tiêu đề của Android

package com.example.testapp;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.Window;  
import android.view.WindowManager;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 requestWindowFeature(Window.*FEATURE\_NO\_TITLE*);  
 this.getWindow().setFlags(WindowManager.LayoutParams.*FLAG\_FULLSCREEN*, WindowManager.LayoutParams.*FLAG\_FULLSCREEN*);  
 setContentView(R.layout.*activity\_main*);  
 }  
}

1. Đăng Nhập hệ thống

Code tạo giao diện đăng nhập: 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" >  
  
 <EditText  
 android:id="@+id/editTextName"  
 android:layout\_width="345dp"  
 android:layout\_height="51dp"  
 android:layout\_marginTop="168dp"  
 android:ems="10"  
 android:hint="UserName"  
 android:inputType="textPersonName"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.757"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <EditText  
 android:id="@+id/editTextPassword"  
 android:layout\_width="345dp"  
 android:layout\_height="51dp"  
 android:layout\_marginTop="40dp"  
 android:ems="10"  
 android:hint="Password"  
 android:inputType="textPersonName"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.757"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextName" />  
  
 <Button  
 android:id="@+id/btnDangNhap"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="32dp"  
 android:text="Đăng nhập"  
 android:textColor="#fff"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.86"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf=  
 "@+id/editTextPassword" />  
  
 <TextView  
 android:id="@+id/txtNoiDung1"  
 android:layout\_width="249dp"  
 android:layout\_height="32dp"  
 android:layout\_marginEnd="64dp"  
 android:layout\_marginBottom="24dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/editTextName"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Giao diện đăng nhập

Code xử lý đăng nhập: MainActivity.java

package com.example.demoapp;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.view.Window;  
import android.view.WindowManager;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText editTextname, editTextpass;  
 Button btnDangnhap;  
 TextView txtNoiDung1;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 btnDangnhap =(Button) findViewById(R.id.*btnDangNhap*);  
 editTextname = (EditText) findViewById(R.id.*editTextName*);  
 editTextpass = (EditText) findViewById(R.id.*editTextPassword*);  
 txtNoiDung1 = (TextView) findViewById(R.id.*txtNoiDung1*);  
 btnDangnhap.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 //viết code  
 if(editTextname.getText().toString().equals("admin")  
 && editTextpass.getText().toString().equals("admin")){  
 txtNoiDung1.setText("Đăng nhập thành công!");  
 }else{  
 txtNoiDung1.setText("Đăng nhập thất bại" +  
 editTextpass.getText().toString());  
 }  
 }  
 });  
  
 }  
  
  
  
}

1. Viết chương trình tìm nhập 01 mảng ArrayList kiểu số và in ra Log.d các số nguyên tố.

package com.example.bai3;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.util.Log;  
  
import java.util.ArrayList;  
public class MainActivity extends AppCompatActivity {  
 ArrayList<Integer> numbers = new ArrayList<>();  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 // Thêm các số vào ArrayList  
 numbers.add(2);  
 numbers.add(3);  
 numbers.add(5);  
 numbers.add(7);  
 numbers.add(11);  
  
 // Tìm các số nguyên tố trong ArrayList  
 for (int number : numbers) {  
 if (isPrime(number)) {  
 Log.*d*("PRIME", String.*valueOf*(number));  
 }  
 }  
 }  
  
 private boolean isPrime(int number) {  
 for (int i = 2; i <= number / 2; i++) {  
 if (number % i == 0) {  
 return false;  
 }  
 }  
 return true;  
 }  
}

1. Viết chương trình tìm nhập 01 mảng ArrayList kiểu số từ View (EditText) và in ra View (TextView) và Toast các số chính phương thông qua nút Button.

Code tạo Giao diện: 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">  
  
 <EditText  
 android:id="@+id/numberEditText"  
 android:layout\_width="378dp"  
 android:layout\_height="189dp"  
 android:layout\_marginTop="76dp"  
 android:layout\_marginEnd="32dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Nhap mang cac so nguyen"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/resultTextView"  
 android:layout\_width="274dp"  
 android:layout\_height="201dp"  
 android:layout\_marginTop="84dp"  
 android:layout\_marginEnd="100dp"  
 android:text="TextView"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/numberEditText" />  
  
 <Button  
 android:id="@+id/findArrayButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="32dp"  
 android:text="toast"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/numberEditText" />  
</androidx.constraintlayout.widget.ConstraintLayout>

Code xử lý: MainActivity.java

package com.example.bai3;  
  
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;  
import android.widget.Toast;  
  
import java.util.ArrayList;  
import java.util.List;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText numberEditText;  
 TextView resultTextView;  
 Button findArrayButton;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 numberEditText = findViewById(R.id.*numberEditText*);  
 resultTextView = findViewById(R.id.*resultTextView*);  
  
 findArrayButton = findViewById(R.id.*findArrayButton*);  
 findArrayButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String numbers = numberEditText.getText().toString();  
 String[] numbersArray = numbers.split(",");  
  
 List<Integer> numbersList = new ArrayList<>();  
 for (String number : numbersArray) {  
 numbersList.add(Integer.*parseInt*(number));  
 }  
  
 resultTextView.setText("Các số trong mảng: " + numbersList.toString());  
 }  
 });  
 Button findArrayButton = findViewById(R.id.*findArrayButton*);  
 findArrayButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String numbers = numberEditText.getText().toString();  
 String[] numbersArray = numbers.split(",");  
  
 List<Integer> numbersList = new ArrayList<>();  
 for (String number : numbersArray) {  
 numbersList.add(Integer.*parseInt*(number));  
 }  
  
 resultTextView.setText("Các số trong mảng: " + numbersList.toString());  
  
 StringBuilder perfectSquares = new StringBuilder();  
 for (int number : numbersList) {  
 int squareRoot = (int) Math.*sqrt*(number);  
 if (squareRoot \* squareRoot == number) {  
 perfectSquares.append(number).append(", ");  
 }  
 }  
  
 if (perfectSquares.length() > 0) {  
 perfectSquares.delete(perfectSquares.length() - 2, perfectSquares.length());  
 Toast.*makeText*(MainActivity.this, "Các số chính phương: " + perfectSquares.toString(), Toast.*LENGTH\_LONG*).show();  
 } else {  
 Toast.*makeText*(MainActivity.this, "Không có số chính phương nào trong mảng", Toast.*LENGTH\_LONG*).show();  
 }  
 }  
 });  
 }  
}