Program 7

Create an android application to demonstrate storing data into internal phone memory.

ACTIVITY_MAIN.XML

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
 android:id="@+id/activity_main"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
      tools:context="com.example.internalstoragedemo.MainActivity">

 <TextView
 android:text="@string/name"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_alignParentTop="true"
 android:layout_alignParentLeft="true"
  android:layout_alignParentStart="true"
 android:layout_marginLeft="51dp"
 android:layout_marginStart="51dp"
 android:layout_marginTop="59dp"
 android:id="@+id/txtname"
 android:textStyle="bold|italic"
 android:textSize="18sp" />

 <TextView
 android:text="@string/password"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_below="@+id/txtname"
 android:layout_alignLeft="@+id/txtname"
 android:layout_alignStart="@+id/txtname"
 android:layout_marginTop="56dp"
 android:id="@+id/txtpass"
 android:textStyle="bold|italic"
 android:textSize="18sp" />

 <EditText
 android:id="@+id/editName"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_alignParentTop="true"
 android:layout_marginStart="21dp"
 android:layout_marginLeft="21dp"
 android:layout_marginTop="48dp"
 android:layout_toEndOf="@+id/txtpass"
 android:layout_toRightOf="@+id/txtpass"
 android:ems="8"
 android:inputType="textPersonName" />
 <EditText
 android:id="@+id/editPass"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_below="@+id/editName"
```

```
 android:layout_alignStart="@+id/editName"
 android:layout_alignLeft="@+id/editName"
 android:layout_marginTop="35dp"
 android:ems="10"
 android:inputType="textPassword" />

 <Button
 android:text="@string/save"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_below="@+id/editPass"
 android:layout_alignLeft="@+id/txtpass"
 android:layout_alignStart="@+id/txtpass"
 android:layout_marginTop="86dp"
 android:id="@+id/button"
 android:onClick="save"/> // OnClick "save"

 <Button
 android:text="@string/next"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_alignTop="@+id/button"
 android:layout_alignRight="@+id/editName"
 android:layout_alignEnd="@+id/editName"
 android:layout_marginRight="25dp"
 android:layout_marginEnd="25dp"
 android:id="@+id/button2"
 android:onClick="next"/> // OnClick "next"
</RelativeLayout>
```

SECOND_ACTIVITY.XML

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
 android:id="@+id/activity_main2"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
      tools:context="com.example.internalstoragedemo.SecondActivity">

 <TextView
 android:text="@string/getname"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_alignParentTop="true"
 android:layout_alignRight="@+id/button3"
 android:layout_alignEnd="@+id/button3"
 android:layout_marginRight="11dp"
 android:layout_marginEnd="11dp"
 android:layout_marginTop="76dp"
 android:id="@+id/textView3"
 android:textSize="18sp"
 android:textStyle="bold|italic" />
 <TextView
 android:text="@string/getpassword"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@+id/textView3"
android:layout_alignRight="@+id/textView3"
android:layout_alignEnd="@+id/textView3"
android:layout_marginTop="33dp"
android:id="@+id/textView4"
 android:textStyle="bold|italic"
android:textSize="18sp" />

 <TextView
 android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_above="@+id/textView4"
android:layout_alignLeft="@+id/button4"
android:layout_alignStart="@+id/button4"
android:id="@+id/getname"
 android:textStyle="bold|italic"
android:textSize="18sp" />

 <TextView
 android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignBottom="@+id/textView4"
android:layout_alignLeft="@+id/getname"
android:layout_alignStart="@+id/getname"
android:id="@+id/getpass"
 android:textStyle="bold|italic"
android:textSize="18sp" />

 <Button
 android:text="@string/load"
 android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/button3"
```

```
 android:layout_marginLeft="35dp"
android:layout_marginStart="35dp"
android:onClick="load"
 android:layout_below="@+id/textView4"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true"
android:layout_marginTop="80dp" />

 <Button
 android:text="@string/back"
 android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginRight="54dp"
android:layout_marginEnd="54dp"
android:id="@+id/button4"
 android:onClick="back"
 android:layout_alignBaseline="@+id/button3"
android:layout_alignBottom="@+id/button3"
android:layout_alignParentRight="true"
android:layout_alignParentEnd="true" />

</RelativeLayout>
```

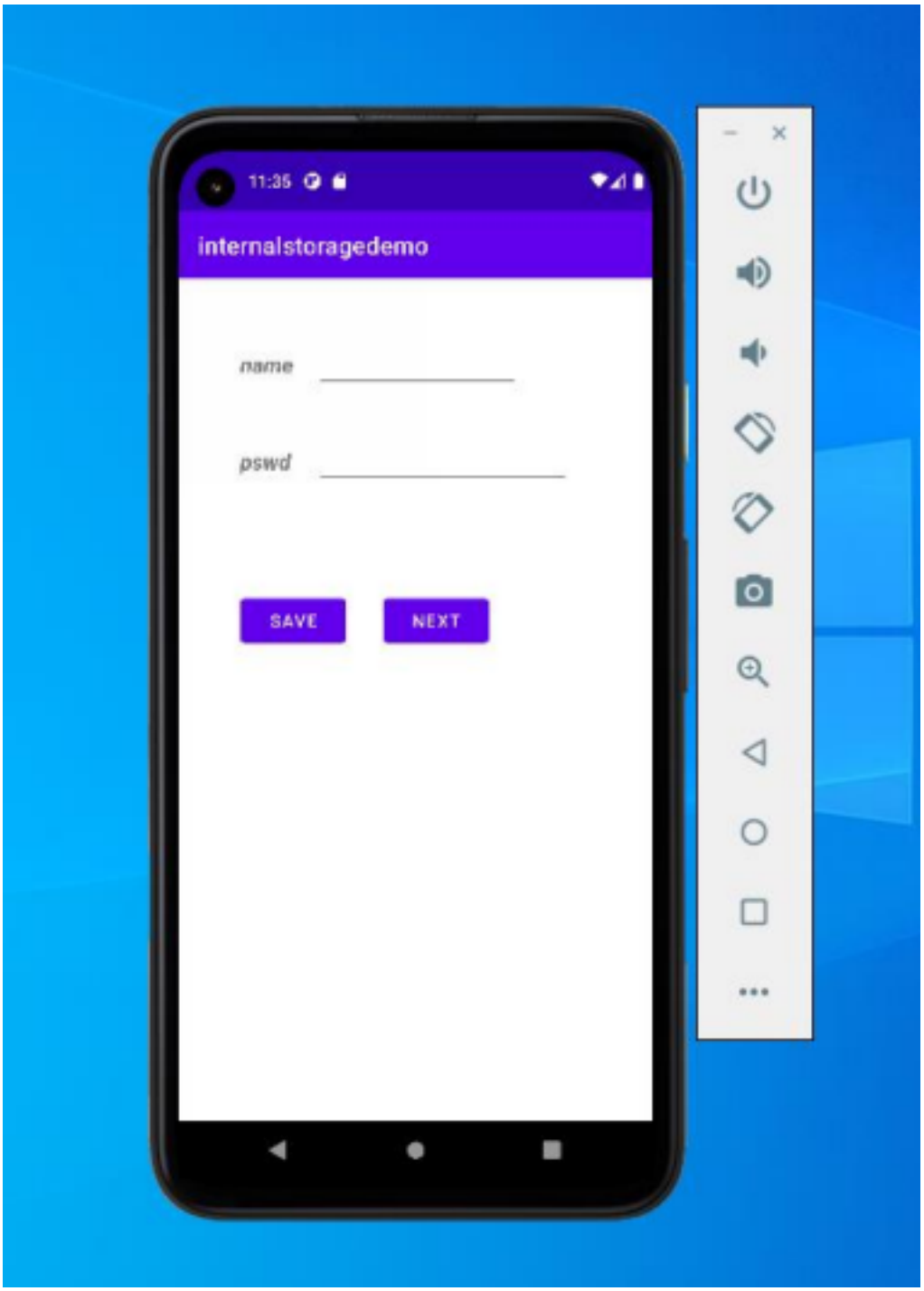
MAIN ACTIVITY .JAVA

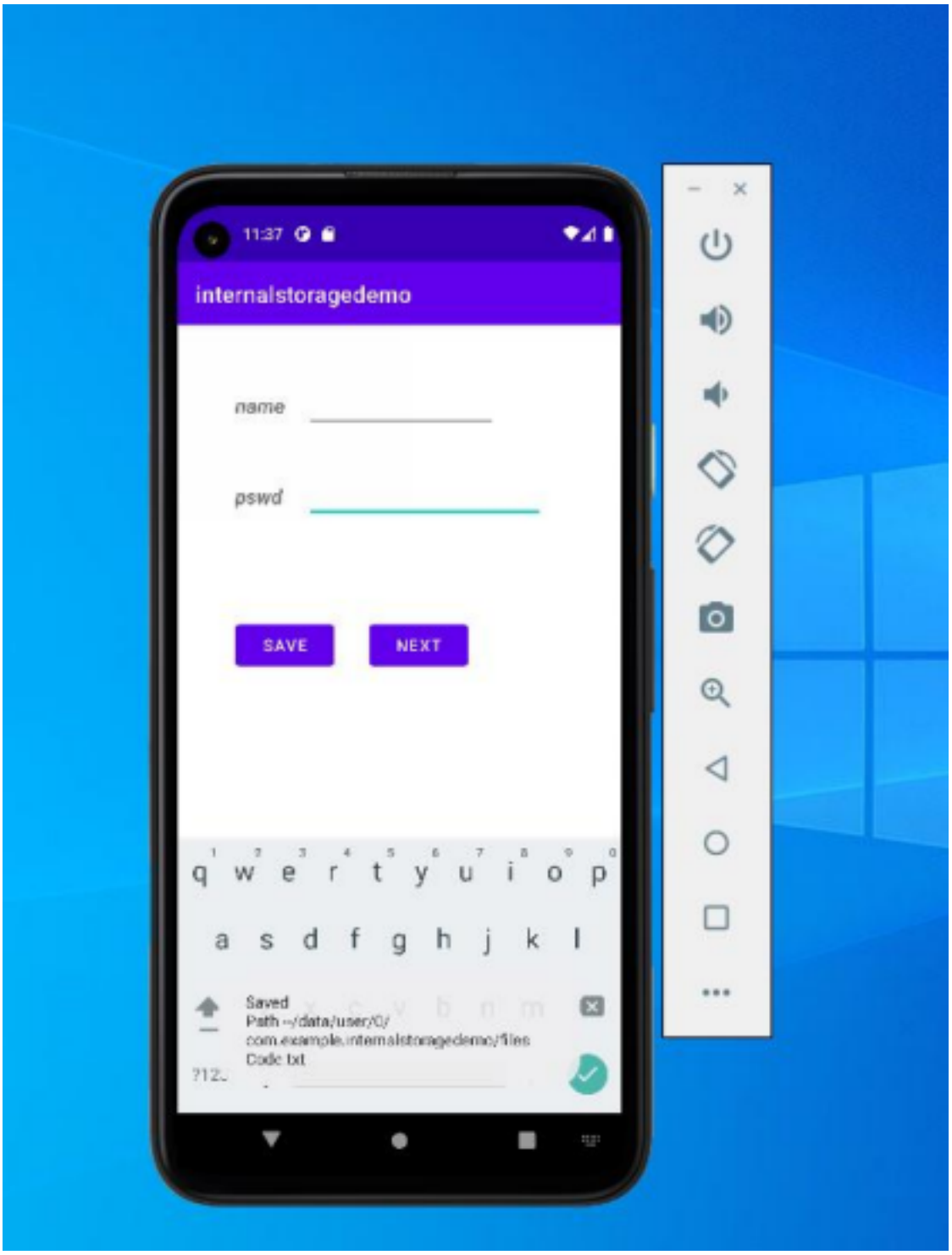
```
package com.example.internalstoragedemo;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.content.Context;
import android.content.Intent;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
import java.io.File;
import java.io.FileOutputStream;
import java.io.IOException;

public class MainActivity extends AppCompatActivity {
EditText editname,editpass;
 @Override
 protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
 setContentView(R.layout.activity_main);
 editname = (EditText) findViewById(R.id.editName);
editpass= (EditText) findViewById(R.id.editPass); }

 public void save(View view) // SAVE
 {
 File file= null;
 String name = editname.getText().toString(); String
password = editpass.getText().toString();

 FileOutputStream fileOutputStream = null; try {
 name = name + " ";
 file = getFilesDir();
 fileOutputStream = openFileOutput("Code.txt",
Context.MODE_PRIVATE); //MODE PRIVATE
 fileOutputStream.write(name.getBytes());
fileOutputStream.write(password.getBytes()); Toast.makeText(this,
"Saved \n" + "Path --" + file + "\tCode.txt",
Toast.LENGTH_SHORT).show();
 editname.setText("");
 editpass.setText("");
 return;
 } catch (Exception ex) {
 ex.printStackTrace();
 } finally {
 try {
 fileOutputStream.close();
 } catch (IOException e) {
 e.printStackTrace();
 }
 }
 }

 public void next( View view) //NEXT
 {
 Toast.makeText(this,"NEXT", Toast.LENGTH_SHORT).show(); Intent
intent= new Intent(this, SecondActivity.class);
startActivity(intent);
 }
}
```

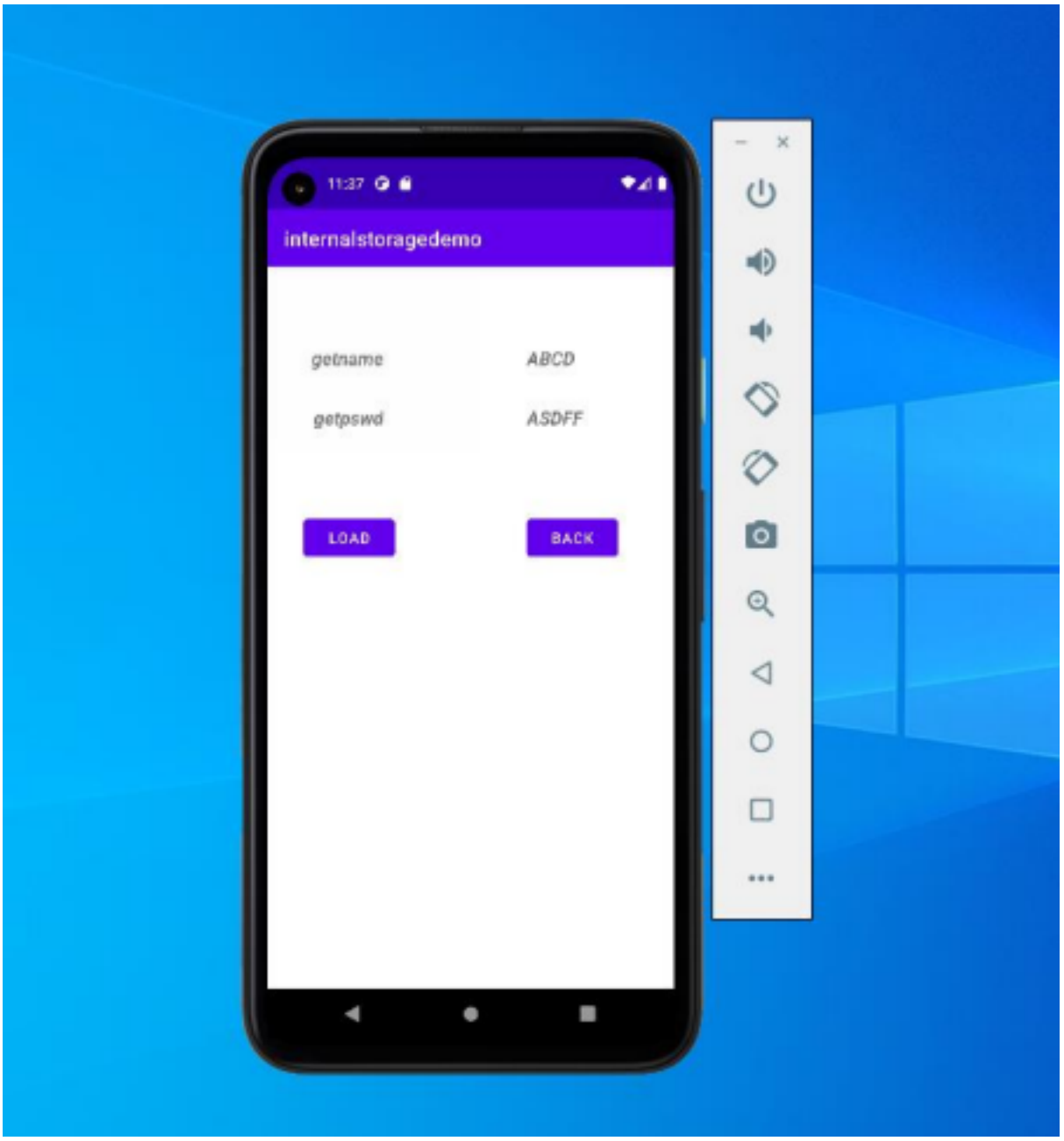
SECOND ACTIVITY .JAVA

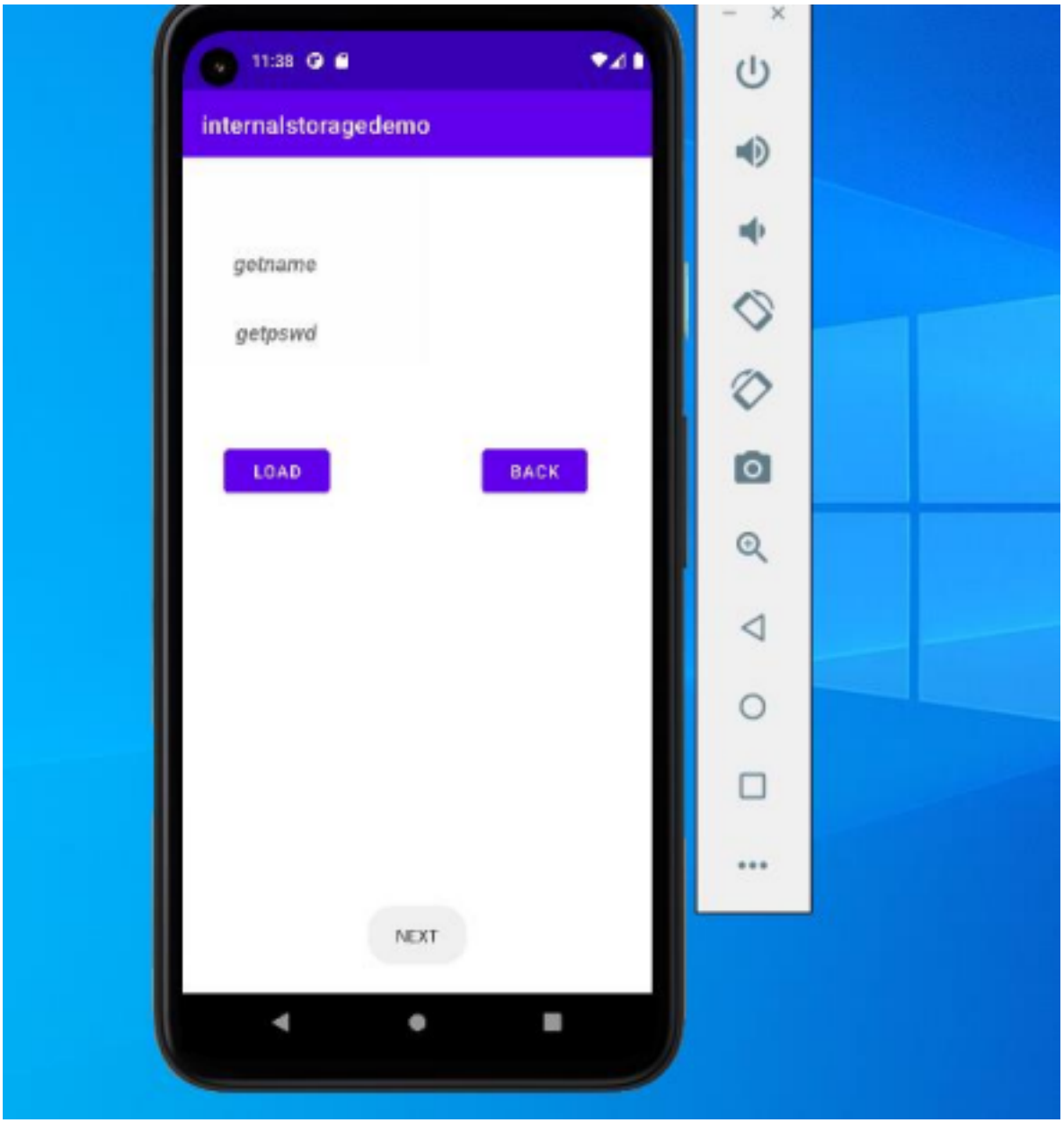
```
package com.example.internalstoragedemo;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.content.Intent;
import android.util.Log;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;
import java.io.FileInputStream;

public class SecondActivity extends AppCompatActivity {

 TextView getname, getpass;
 @Override
 protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
 setContentView(R.layout.activity_second);
    getname    =    (TextView)findViewById(R.id.getname);
getpass = (TextView)findViewById(R.id.getpass);  }
 public void load(View view)
 {
 try {
 FileInputStream fileInputStream = openFileInput("Code.txt");  int read =
-1;
 StringBuffer buffer = new StringBuffer();
 while((read =fileInputStream.read())!= -1){
buffer.append((char)read);
 }
 Log.d("Code", buffer.toString());
  String  name  =  buffer.substring(0,buffer.indexOf("  "));    String
pass        =        buffer.substring(buffer.indexOf("         ")+1);
getname.setText(name);
 getpass.setText(pass);
 } catch (Exception e) {
 e.printStackTrace();
 }
 Toast.makeText(this,"Loaded", Toast.LENGTH_SHORT).show();  }

 public void back( View view)
 {
 Toast.makeText(this,"Back", Toast.LENGTH_SHORT).show();  Intent
intent= new Intent(this, MainActivity.class);
startActivity(intent);
 }
}
```

OUTPUT


11:35
internalstoragedemo
name
pswd
SAVE
NEXT


11:37
internalstoragedemo
name
pswd
SAVE
NEXT
Saved
Path -/data/user/0/
com.example.internalstoragedemo/files
Code.txt


11:37
internalstoragedemo
getname
ABCD
getpswd
ASDFF
LOAD
BACK


11:38
internalstoragedemo
getname
getpswd
LOAD
BACK
NEXT