Program 7. Create an android application to demonstrate storing data into internal phone memory.

ACTIVITY_MAIN.XML

```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"
```

```xml
    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
<?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"
```

```xml
    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

```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("");
```

```java
        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

```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