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/an droid"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/activity_main" android:layout_width="match_parent"
android:layout_height="match_parent"</pre>
```

tools:context="com.example.storagedata.MainActivity">

```
<TextView android:text="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="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" />
               android:id="@+id/editName"
  <EditText
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" />
              android:text="save"
  <Button
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="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>
```

Main activity.java

package com.example.storagedata;

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;
               protected void onCreate(Bundle savedInstanceState) {
  @Override
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, MainActivity2.class);
                                                           startActivity(intent);
 }
}
```

activity main2.XML

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/an droid"
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.storagedata.MainActivity2" >
  <TextView android:text="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" />
                android:text="getpassword"
  <TextView
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" />
                android:layout width="wrap content"
  <TextView
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"/>
              android:text="load"
  <Button
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="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 activity2.java
package com.example.storagedata;
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 MainActivity2 extends AppCompatActivity {
```

```
TextView getname, getpass;
               protected void onCreate(Bundle savedInstanceState) {
  @Override
super.onCreate(savedInstanceState);
setContentView(R.layout.activity main2);
                                              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("
            getname.setText(name);
")+1);
getpass.setText(pass);
    } catch (Exception e) {
      e.printStackTrace();
    }
    Toast.makeText(this,"Loaded",
Toast.LENGTH_SHORT).show();
```

OUTPUT





