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.internalstorage.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>
```

Activity_second.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.internalstorage.MainActivity2">

    <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>
```

MainActivity.java

```
package com.example.internalstorage;
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, MainActivity2.class);
        startActivity(intent);

    }
}
```

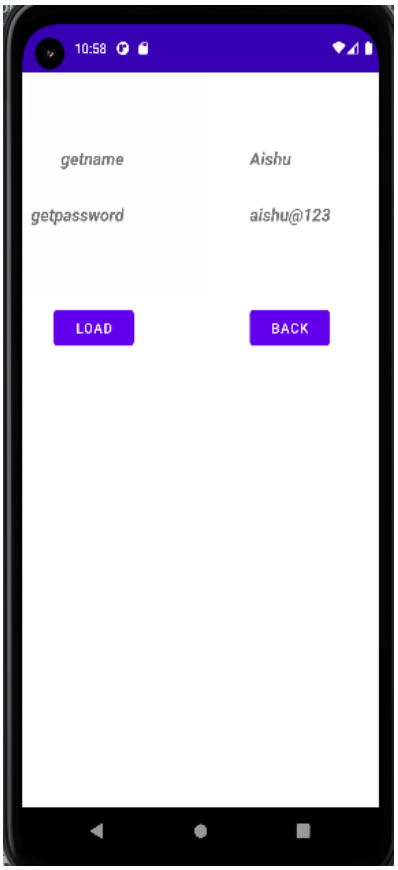
MainActivity2.java

```
package com.example.internalstorage;
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;
    @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