Program 7

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

MainActivity.java

```
package com.example.a7storingdata;
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);
   }
}
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   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.a7storingdata.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>
```

MainActivity2.java

```
package com.example.a7storingdata;
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 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(" ")+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);
    }
}
```

activity_main2.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   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.a7storingdata.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>
```

OUTPUT:

