Experiment No.: 5

Aim

Design a registration activity and store registration details in local memory of phone using Intents and Shared Preferences

CO2

Write simple programs and develop small applications using the concepts of UI design, layouts and preferences

Procedure

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Registration"
        android:textSize="26dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText

    android:id="@+id/eD"

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:hint="enter name"/>

<EditText

    android:id="@+id/eD2"

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:hint="enter email"/>

<EditText

    android:id="@+id/eD3"

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:hint="enter password"/>

<EditText

    android:id="@+id/eD4"

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:hint="re-enter password"/>

<LinearLayout

    android:layout_width="wrap_content"

    android:layout_height="wrap_content">

<Button

    android:id="@+id/btn1"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="save"/>

<Button
```

```
        android:id="@+id/btn2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="view"/>

    <Button

        android:id="@+id/btn3"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="clear"/>

</LinearLayout>

    <TextView

        android:id="@+id/textView1"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <TextView

        android:id="@+id/textView2"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <TextView

        android:id="@+id/textView3"

        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <TextView

        android:id="@+id/textView4"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

</LinearLayout>
```

MainActivity.java

```java
package com.example.sharedpreferance;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override
```

```java
protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);

    Button btn = (Button) findViewById(R.id.btn1);

    Button btn2 = (Button) findViewById(R.id.btn2);

    Button btn3 = (Button) findViewById(R.id.btn3);

    TextView tv = (TextView) findViewById(R.id.textView);

    EditText eD = (EditText) findViewById(R.id.eD);

    EditText eD2 = (EditText) findViewById(R.id.eD2);

    EditText eD3 = (EditText) findViewById(R.id.eD3);

    EditText eD4 = (EditText) findViewById(R.id.eD4);

    TextView tv1 = (TextView) findViewById(R.id.textView1);

    TextView tv2 = (TextView) findViewById(R.id.textView2);

    TextView tv3 = (TextView) findViewById(R.id.textView3);

    TextView tv4 = (TextView) findViewById(R.id.textView4);

    SharedPreferences pref =getApplicationContext().getSharedPreferences("storage",
Context.MODE_PRIVATE);

    btn.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View view) {

            SharedPreferences.Editor ed = pref.edit();

            String a=eD.getText().toString();

            String e=eD2.getText().toString();

            String p=eD3.getText().toString();

            String cp=eD4.getText().toString();

            Toast.makeText(MainActivity.this, "Data inserted Successfully",
Toast.LENGTH_SHORT).show();

            ed.putString("NameKey",a);

            ed.putString("email", e);

            ed.putString("password", p);
```

```java
        ed.putString("cpswd", cp);

        ed.commit();

    }

});

btn2.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

        tv1.setText(pref.getString("NameKey",null));

        eD.setText(pref.getString("NameKey",null));

        tv2.setText(pref.getString("email",null));

        eD2.setText(pref.getString("email",null));

        tv3.setText(pref.getString("password",null));

        eD3.setText(pref.getString("password",null));

        tv4.setText(pref.getString("cpswd",null));

        eD4.setText(pref.getString("cpswd",null));

        Toast.makeText(MainActivity.this, "DAta inserted Successfully",
Toast.LENGTH_SHORT).show();

    }

});

btn3.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

        tv1.setText("");

        tv2.setText("");

        tv3.setText("");

        tv4.setText("");

        eD.setText("");

        eD2.setText("");

        eD3.setText("");

        eD4.setText("");
```
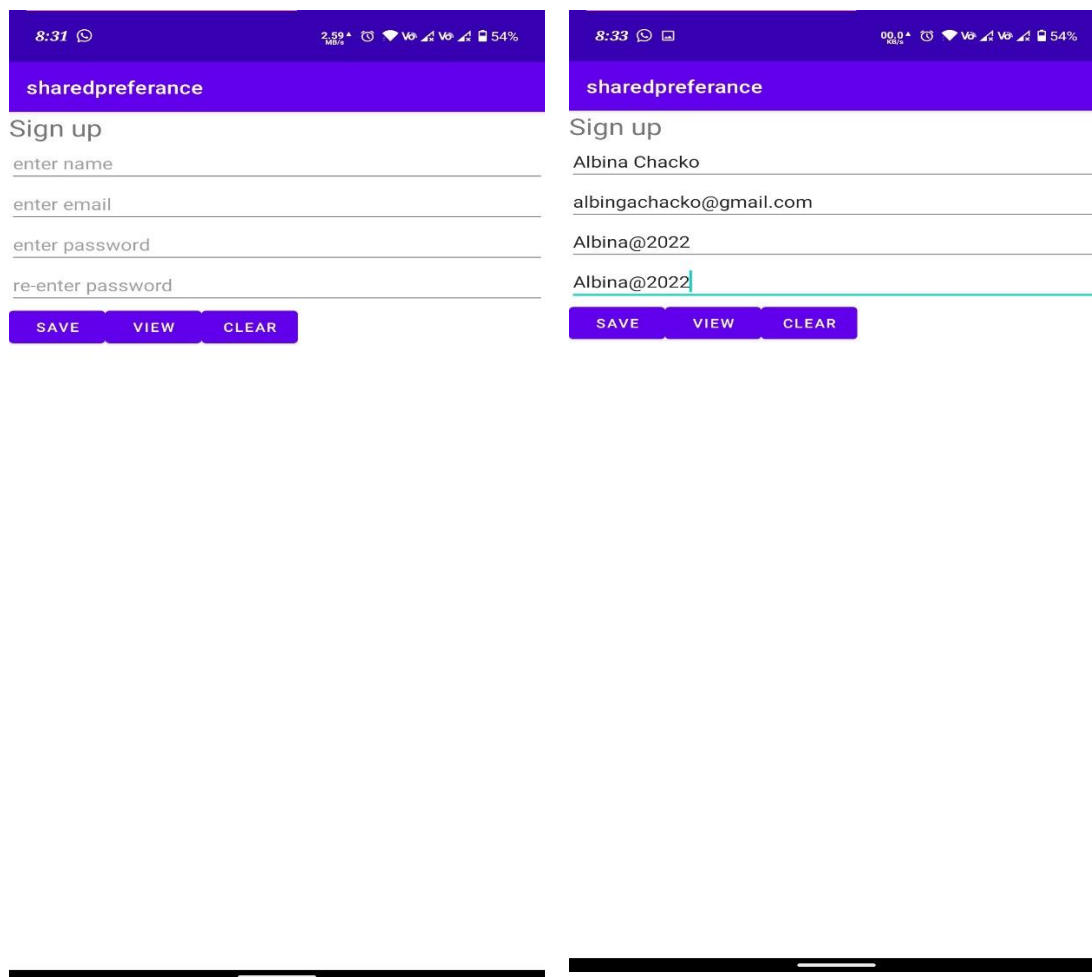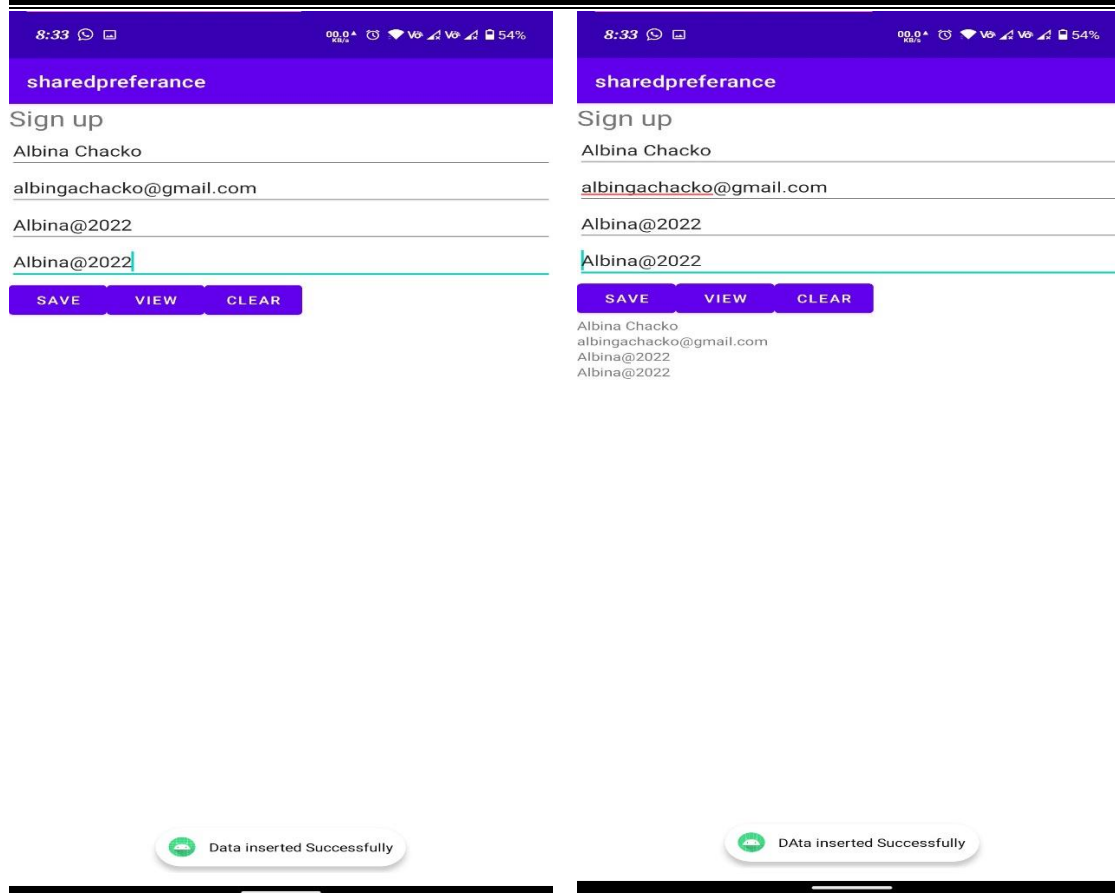
```
        }

    });

  }

}
```

Output Screenshot

Result

The program was executed and the result was successfully obtained. Thus CO_2 was obtained.