

CHANDINI T R

1NT20IS403

SQLite Database App: Login Application

Activity_main.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">

    <EditText
        android:id="@+id/uname"
        android:layout_width="match_parent"
        android:layout_height="72dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name" />

    <EditText
        android:id="@+id/upass"
        android:layout_width="match_parent"
        android:layout_height="67dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="password" />

    <Button
        android:id="@+id/login"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="login" />

    <Button
        android:id="@+id/register"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="register" />

    <Button
        android:id="@+id/delete"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="delete" />

    <Button
        android:id="@+id/update"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="update" />

</LinearLayout>
```

```

<Button
    android:id="@+id/display"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="display" />

<TextView
    android:id="@+id/res"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="TextView" />

</LinearLayout>

```

MainActivity.java

```

package com.example.dbhelper1;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
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 {
    Button register,update,delete,display,login;
    EditText uname,upass;
    TextView res;
    private static final String dbName="studentdb";
    private static final String tbName="student";
    private static final int dbVersion = 1;
    dbHelper mydbhelper;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        register=findViewById(R.id.register);
        update=findViewById(R.id.update);
        delete=findViewById(R.id.delete);
        display=findViewById(R.id.display);
        login=findViewById(R.id.login);
        res=findViewById(R.id.res);
        uname=findViewById(R.id.uname);
        upass=findViewById(R.id.upass);
        register.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                mydbhelper=new
dbHelper(MainActivity.this, dbName, null, dbVersion);

```

```

        long
val=mydbhelper.adduser(uname.getText().toString(),upass.getText().toString(
));
        if(val!=-1){
Toast.makeText(MainActivity.this,"Registered",Toast.LENGTH_SHORT).show();
        }
    }
});
update.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        mydbhelper=new
dbhelper(MainActivity.this,dbName,null,dbVersion);
mydbhelper.update(uname.getText().toString(),upass.getText().toString());
    }
});
delete.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        mydbhelper=new
dbhelper(MainActivity.this,dbName,null,dbVersion);
        mydbhelper.delete(uname.getText().toString());
    }
});
display.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        mydbhelper=new
dbhelper(MainActivity.this,dbName,null,dbVersion);
        String value=mydbhelper.Display(MainActivity.this);
        res.setText(value);
    }
});
}
}
}

```

dbhelper.java

```

package com.example.dbhelper1;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

import androidx.annotation.Nullable;

public class dbhelper extends SQLiteOpenHelper {
    private static final String dbName = "studentdb";
    private static final String tbName = "student";
    private static final int dbVersion = 1;
    public dbhelper(@Nullable Context context, @Nullable String name,
@Nullable SQLiteDatabase.CursorFactory factory, int version) {
        super(context, name, factory, version);
    }
}

```

```

    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("CREATE TABLE " + tbName+ "(uname VARCHAR(10),passw
VARCHAR(10))" + ";");
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int prev_v, int new_v) {
        db.execSQL("DROP TABLE IF EXISTS " + tbName);
        onCreate(db);
    }

    public long adduser(String name, String pass) {
        SQLiteDatabase sqLiteDatabase = this.getWritableDatabase();
        ContentValues cv = new ContentValues();
        cv.put("uname", name);
        cv.put("passw ", pass);
        long result = sqLiteDatabase.insert(tbName, null, cv);
        sqLiteDatabase.close();
        return result;
    }

    public void delete(String name){
        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();
        sqLiteDatabase.execSQL("DELETE FROM " + tbName+ " WHERE uname='" +
name + "';");
        sqLiteDatabase.close();
    }

    public void update(String name,String pass){
        SQLiteDatabase sqLiteDatabase=this.getWritableDatabase();
        sqLiteDatabase.execSQL("UPDATE " + tbName+ " SET passw='" + pass +
"'" + " WHERE uname='" + name + "';");
        sqLiteDatabase.close();
    }

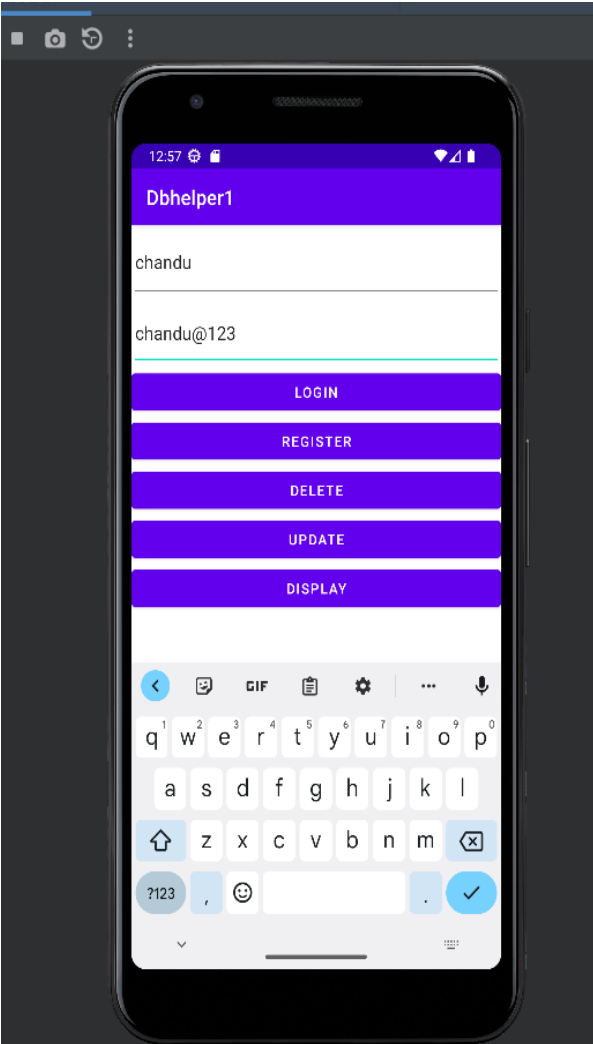
    public String Display(Context ctx){
        SQLiteDatabase sqLiteDatabase=this.getReadableDatabase();
        Cursor cursor=sqLiteDatabase.rawQuery("SELECT * FROM " + tbName, null);
        String finalres=" ";
        while (cursor.moveToNext()){
            finalres+= cursor.getString(0)+":"+ cursor.getString(1);

        }
        return finalres;
    }
}

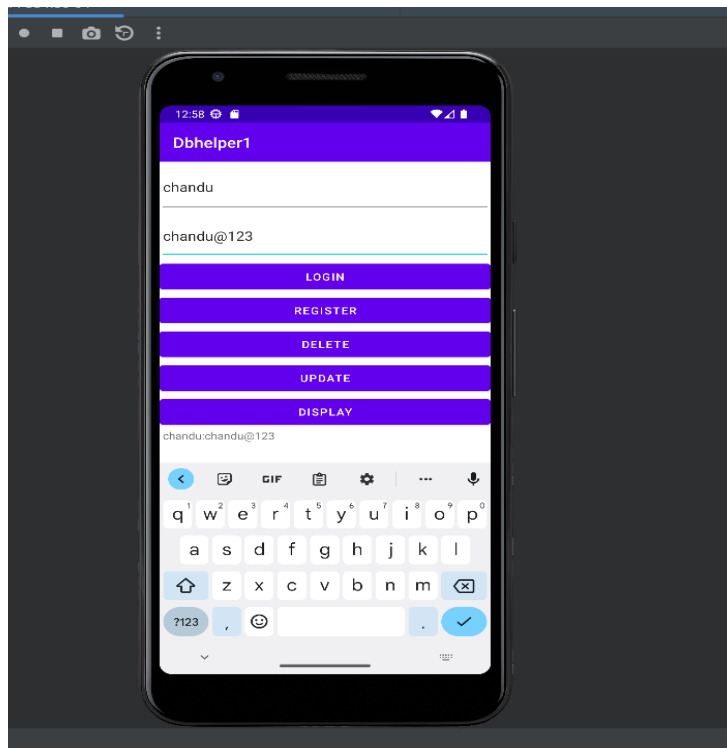
```

OUTPUT

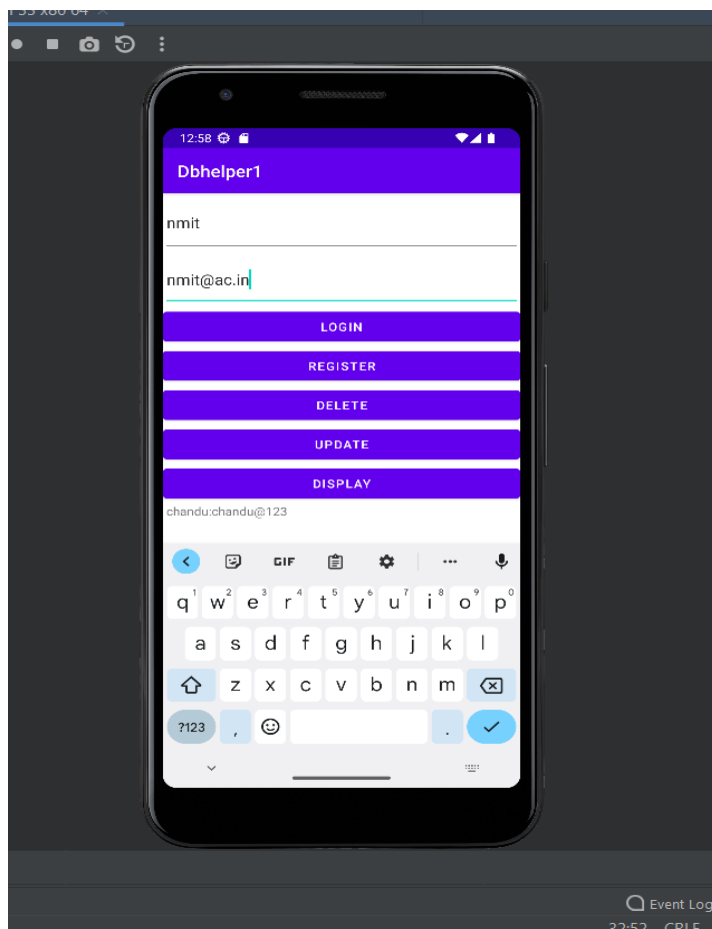
REGISTER



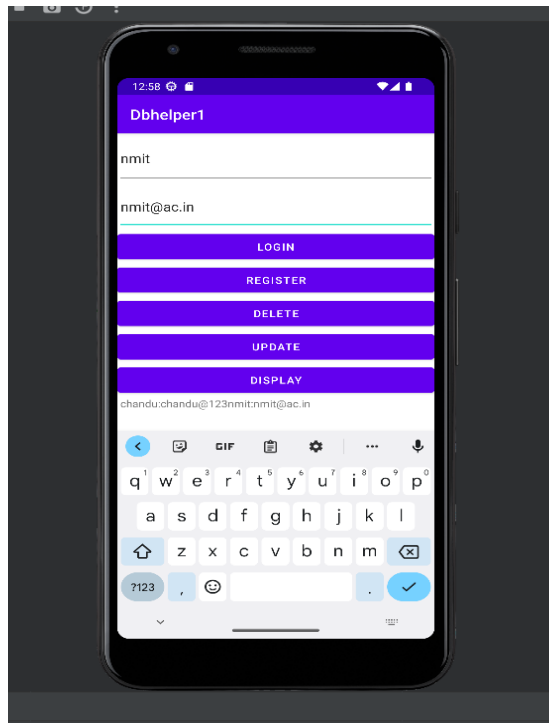
Display



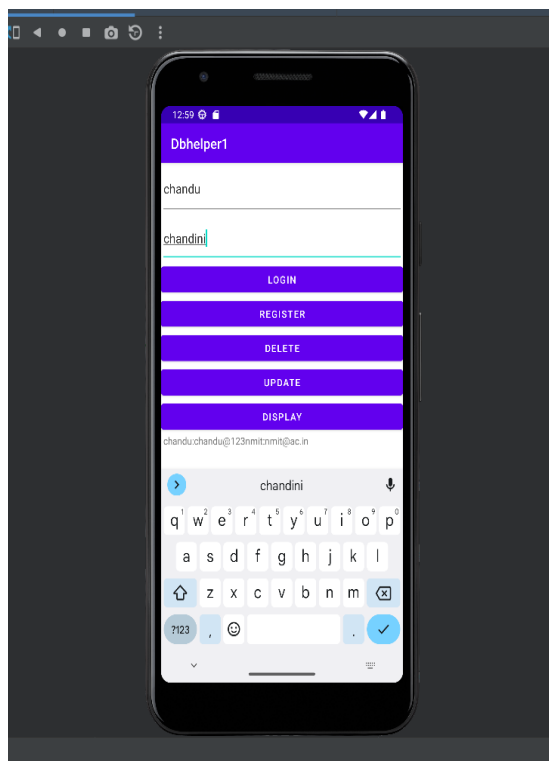
Register



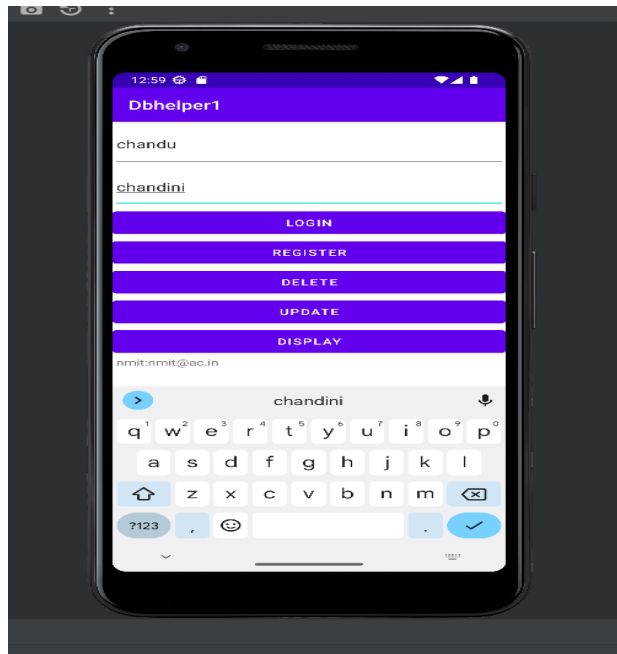
Display



Update



Delete



Display

