**Practical No. 5**

**Title: Android program to perform CRUD operation using**

**SQLite DB**

**Aim: Create an application to demonstrate CRUD operations using SQLite DB**

**Exercise - Create android application to demonstrate CRUD operations using SQLite DB**

**Implementation: Program:**

**MainActivity.java**

package com.example.db;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase; import android.os.Bundle; import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

private TextView t1;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

t1=findViewById(R.id.textView);

dbhandler h1=new dbhandler(this);

SQLiteDatabase database=h1.getReadableDatabase();

Cursor cs=database.rawQuery("SELECT name, roll\_no FROM

STUDENTS",new String[]{});

if(cs != null)

{

cs.moveToFirst();

}

StringBuilder sb = new StringBuilder();

do {

String name = cs.getString(0); String roll = cs.getString(1);

sb.append("Name:- " +name+ "roll\_no:-" +roll);

} while (cs.moveToNext());

cs.close();

t1.setText(sb.toString());

}

}

}

**Dbhandler.java**

package com.example.db;

import android.content.ContentValues; import android.content.Context;

import android.database.sqlite.SQLiteDatabase; import android.database.sqlite.SQLiteOpenHelper;

public class dbhandler extends SQLiteOpenHelper {

private static final String dbname="my\_db"; private static final int version = 1;

public dbhandler(Context context)

{

super(context,dbname,null,version);

}

@Override

public void onCreate(SQLiteDatabase db) {

String create = "CREATE TABLE students (\_id INTEGER PRIMARY KEY

AUTOINCREMENT,name TEXT,roll\_no TEXT)"; db.execSQL(create);

addstudent("Amey","1",db); addstudent("Vishal","2",db);

}

@Override

public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {

}

//create object of contentvalues to add

public void addstudent(String name,String roll\_no,SQLiteDatabase db) {

ContentValues values=new ContentValues(); values.put("name",name); values.put("roll\_no",roll\_no); db.insert("students",null,values);

}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout 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" tools:context=".MainActivity">

<TextView

android:id="@+id/textView" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="TextView" android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.5" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" /> </androidx.constraintlayout.widget.ConstraintLayout>

**Output:**

