

Assignment-3

Q-1 .

1. The first page (launcher activity) should be login activity. Once admin enters username and password it should redirect to Home activity. It should be one time login only.
2. Create the same student table of practical assignment 2 now in mysql. Enter data directly in the table.
3. Home activity should contain 2 buttons : SQLite and PHP. Clicking on SQLite it should redirect to your student activity which you had created in the assignment 2. Clicking on PHP, you have to create the same student activity but now with PHP webservises using recycler view.
4. Along with the add button in options menu add a logout button. Once logout, user will have to login once again on start up.

UserLoginActivity.java

```
package com.example.assignment_2;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
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 User_LoginActivity extends AppCompatActivity
{
    TextView tvUN,tvP;
    EditText etUN,etP;
    Button btnL;
    String un = "Yagnesh";
    String p = "1234";

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_user_login);
    }
}
```

```

        SharedPreferences spf =
getSharedPreferences("userdetail",MODE_PRIVATE);
        if (spf.contains("etUN") && spf.contains("etP"))
        {
            Intent i = new Intent(getApplicationContext(),
MainActivity.class);
            startActivity(i);
            finish();
        }
        else
        {
            tvUN = findViewById(R.id.tvUN);
            tvP = findViewById(R.id.tvP);
            etUN = findViewById(R.id.etUN);
            etP = findViewById(R.id.etP);
            btnL = findViewById(R.id.btnL);
            btnL.setOnClickListener(new View.OnClickListener()
            {
                @Override
                public void onClick(View view)
                {
                    if (un.equals(etUN.getText().toString()) &&
p.equals(etP.getText().toString()))
                    {
                        SharedPreferences spl =
getSharedPreferences("userdetails", MODE_PRIVATE);
                        SharedPreferences.Editor editor = spl.edit();
                        editor.putString("etUN",
etUN.getText().toString());
                        editor.putString("etP", etP.getText().toString());
                        editor.commit();
                        etUN.setText("");
                        etP.setText("");
                        finish();
                        Intent i = new
Intent(getApplicationContext(),MainActivity.class);
                        startActivity(i);
                    }
                    else
                    {
                        Toast.makeText(User_LoginActivity.this, "Please
Check User Name Or Password", Toast.LENGTH_SHORT).show();
                    }
                }
            });
        }
    }
}

```

activity_user_login.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"
    tools:context=".User_LoginActivity"

```

```

android:orientation="vertical"
android:gravity="center"
android:background="@color/skyblue">
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="30dp"
    app:cardCornerRadius="20dp">

    <LinearLayout
        android:layout_width="304dp"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_margin="20dp"
        android:orientation="vertical">

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:gravity="center"
            android:text="Sign In"
            android:textColor="@color/black"
            android:textSize="35sp"
            android:textStyle="bold"
            android:layout_marginBottom="30dp"/>

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="UserName :"
            android:textStyle="bold"
            android:textSize="20sp"
            android:layout_marginBottom="10dp"
            android:id="@+id/tvUN"/>

        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="20sp"
            android:hint="Enter User Name "
            android:inputType="text"
            android:layout_marginBottom="20dp"
            android:id="@+id/etUN"/>

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Password :"
            android:textStyle="bold"
            android:textSize="20sp"
            android:layout_marginBottom="10dp"
            android:id="@+id/tvP"/>

        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textSize="20sp"
            android:hint="Enter Your Password"
            android:inputType="textPassword"
            android:layout_marginBottom="20dp"
            android:id="@+id/etP"/>

```

```

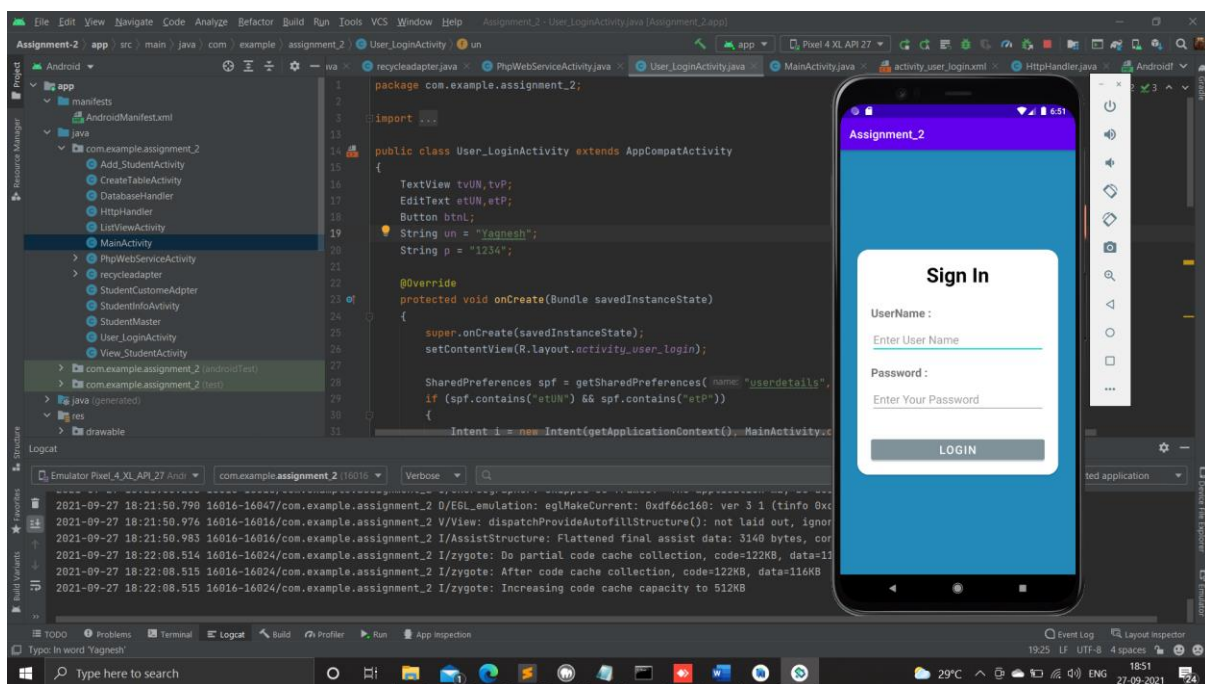
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:text="Login"
    android:textSize="20sp"
    android:textColor="@color/white"
    android:backgroundTint="@color/gray"
    android:id="@+id/btnL"/>

</LinearLayout>
</androidx.cardview.widget.CardView>

</LinearLayout>

```

Output :



MainActivity.java

```

package com.example.assignment_2;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.SharedPreferences;

```

```

import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity implements
View.OnClickListener
{
    TextView tvheader;
    Button btnQ1,btnQ2,btnQ3;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        tvheader = (TextView) findViewById(R.id.tvheader);
        btnQ1 = (Button) findViewById(R.id.btnQ1);
        btnQ2 = (Button) findViewById(R.id.btnQ2);
        btnQ3 = (Button) findViewById(R.id.btnQ3);

        btnQ1.setOnClickListener(this);
        btnQ2.setOnClickListener(this);
        btnQ3.setOnClickListener(this);
    }

    @Override
    public void onClick(View v)
    {
        if (v == btnQ1)
        {
            Intent i = new Intent(this , StudentInfoAvtivity.class);
            startActivity(i);
        }
        else if (v == btnQ2 )
        {
            Intent i = new Intent(this , ListViewActivity.class);
            startActivity(i);
        }
        else
        {
            Intent i = new Intent(this , PhpWebServiceActivity.class);
            startActivity(i);
        }
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu)
    {
        getMenuInflater().inflate(R.menu.logout_menu,menu);
        return super.onCreateOptionsMenu(menu);
    }

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item)
    {

```

```

        if(item.getItemId() == R.id.logout)
        {
            SharedPreferences spl =
getSharedPreferences("userdetails",MODE_PRIVATE);
            SharedPreferences.Editor editor = spl.edit();

            //multiline code for specific data remove from shared
preference
//            editor.remove("etUN").commit();
//            editor.remove("etP").commit();

            //single line code for clear all shared preference data
editor.clear();
editor.apply();

            //editor.commit();

            finish();
            Intent i = new Intent(getApplicationContext(),
User_LoginActivity.class);
            startActivity(i);

        }
        return super.onOptionsItemSelected(item);
    }
}

```

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"
    tools:context=".MainActivity"
    android:orientation="vertical"
    android:layout_margin="10dp">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/tvheader"
        android:id="@+id/tvheader"
        android:layout_margin="20dp"
        android:padding="20dp"
        android:textColor="@color/white"
        android:background="@color/purple_500"/>

    <Button
        android:id="@+id/btnQ1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/btnQ1"
        android:layout_margin="10dp"
        android:padding="10dp"/>

    <Button
        android:id="@+id/btnQ2"

```

```

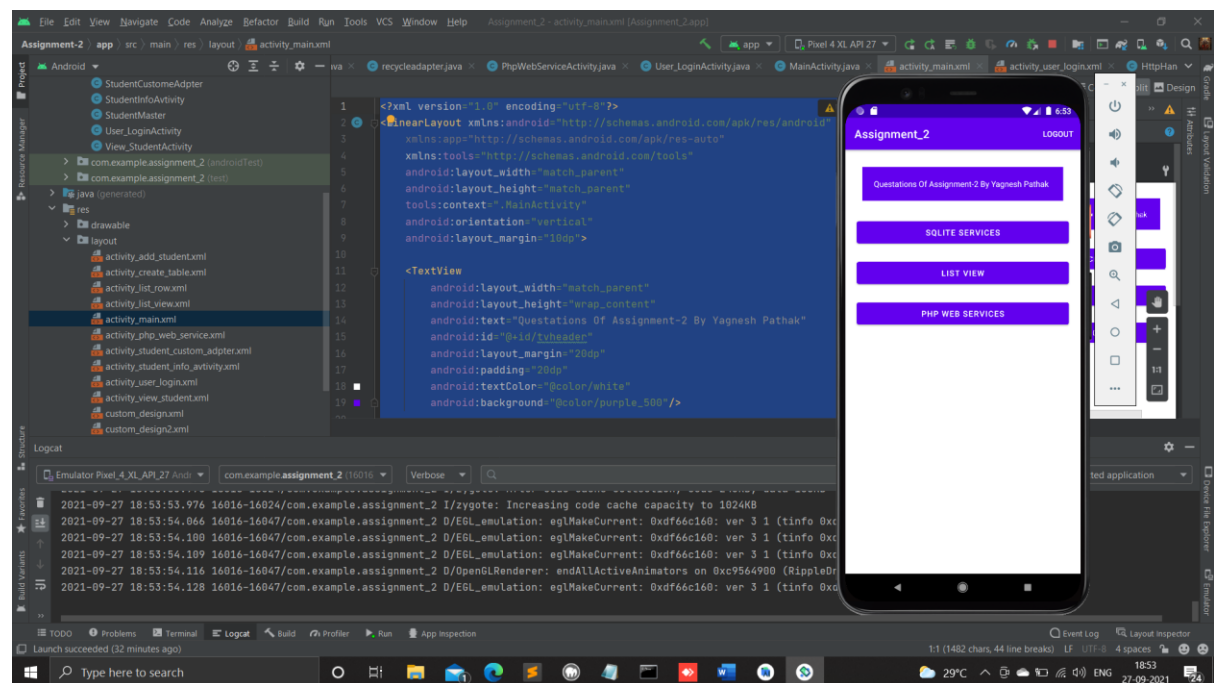
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/btnQ2"
        android:layout_margin="10dp"
        android:padding="10dp"/>

<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/btnQ3"
    android:layout_margin="10dp"
    android:padding="10dp"
    android:text="Php Web Services"/>

</LinearLayout>

```

Output :



StudentInfoActivity.java

```

package com.example.assignment_2;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.TextView;

public class StudentInfoAvtivity extends AppCompatActivity
{
    TextView tvheader;

    @Override

```

```

protected void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_student_info_avtivity);
}
@Override
public boolean onCreateOptionsMenu(Menu menu)
{
    getMenuInflater().inflate(R.menu.student_option_menu, menu);
    return true;
}
@Override
public boolean onOptionsItemSelected(MenuItem item)
{
    switch (item.getItemId())
    {
        case R.id.itadd:
            Intent ia = new
Intent(getApplicationContext(), Add_StudentActivity.class);
            startActivity(ia);
            return true;

        case R.id.itview:
            Intent iv = new
Intent(getApplicationContext(), View_StudentActivity.class);
            startActivity(iv);
            return true;
        default:
            return super.onOptionsItemSelected(item);
    }
}
}

```

activity_student_info.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"
    tools:context=".StudentInfoAvtivity"
    android:orientation="vertical"
    android:layout_margin="10dp">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/tvheader"
        android:id="@+id/tvheader"
        android:layout_margin="20dp"
        android:padding="20dp"
        android:textColor="@color/white"

```

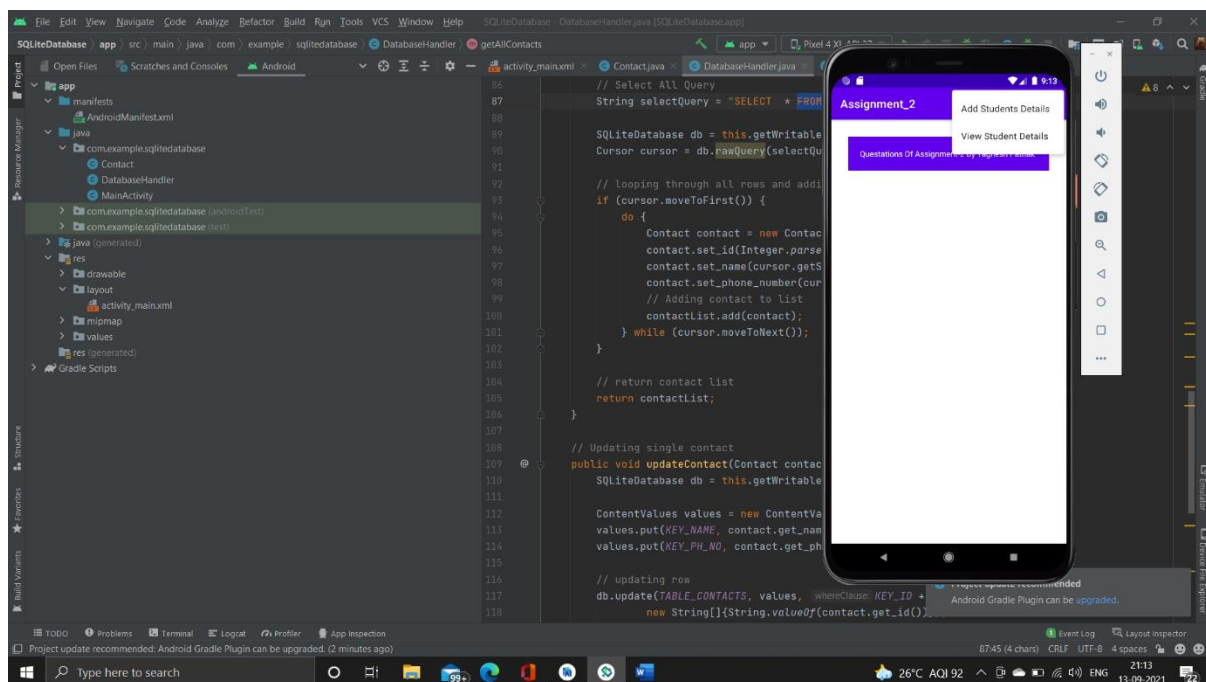


```
        android:background="@color/purple_500"/>

<!--      <Button-->
<!--          android:id="@+id/btnStddata"-->
<!--          android:layout_width="match_parent"-->
<!--          android:layout_height="wrap_content"-->
<!--          android:text="@string/btnStddata" />-->

</LinearLayout>
```

Output:



Add_StudentActivity.java

```

package com.example.assignment_2;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextUtils;
import android.text.TextWatcher;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

import java.text.SimpleDateFormat;
import java.util.Date;

public class Add_StudentActivity extends AppCompatActivity {
    EditText Stuid, Sname, Stroll, M1, M2, M3;
    TextView tv1, tvheader;
    Button btn2, btn3;
    // SQLiteDatabase helper;
    DatabaseHandler DB = new DatabaseHandler(this);

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}

```

```

        setContentView(R.layout.activity_add_student);
//        Stuid = findViewById(R.id.Stuid);
        Sname = findViewById(R.id.Sname);
        Stroll = findViewById(R.id.Stroll);
        M1 = findViewById(R.id.M1);
        M2 = findViewById(R.id.M2);
        M3 = findViewById(R.id.M3);

        tv1 = findViewById(R.id.tv1);
        tvheader = findViewById(R.id.tvheader);

        btn2= findViewById(R.id.btn2);
        btn3= findViewById(R.id.btn3);

        M1.addTextChangedListener(textWatcher);
        M2.addTextChangedListener(textWatcher);
        M3.addTextChangedListener(textWatcher);
        btn2.setTag(-1);
//
        btn2.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View v)
            {
                SimpleDateFormat simpleDateFormat = new
SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
                Date date = new Date();

                if ((int)btn2.getTag()==-1) {

                    DB.AddStudent(new
StudentMaster(Sname.getText().toString(), Stroll.getText().toString(),
M1.getText().toString(), M2.getText().toString(), M3.getText().toString(),
tv1.getText().toString(), simpleDateFormat.format(date).toString()));
//                    StudentMaster sm = new
StudentMaster(Sname.getText().toString(),Stroll.getText().toString(),M1.ge
tText().toString(),M2.getText().toString(),M3.getText().toString(),tv1.getT
ext().toString(),simpleDateFormat.format(date).toString());
//                    DB.AddStudent1((Sname.getText().toString()));
                    Toast.makeText(Add_StudentActivity.this, "Record Add",
Toast.LENGTH_SHORT).show();

                    Log.v("Insert Data", "Student Data Inserted");

                }

            }
        });
        btn3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v)
            {
                Toast.makeText(Add_StudentActivity.this, "Student Details
View", Toast.LENGTH_SHORT).show();
                Intent i = new
Intent(getApplicationContext(),View_StudentActivity.class);

```

```

        startActivity(i);
    }
    });

    }
    TextWatcher textWatcher = new TextWatcher()
    {
        @Override
        public void beforeTextChanged(CharSequence charSequence, int i, int
i1, int i2)
        {

        }

        @Override
        public void onTextChanged(CharSequence charSequence, int i, int i1,
int i2)
        {
            if(!TextUtils.isEmpty(M1.getText().toString().trim())
                || !TextUtils.isEmpty(M2.getText().toString().trim())
                || !TextUtils.isEmpty(M3.getText().toString().trim())

            ) {

                int mark1 =
TextUtils.isEmpty(M1.getText().toString().trim()) ? 0 :
Integer.parseInt(M1.getText().toString().trim());
                int mark2 =
TextUtils.isEmpty(M2.getText().toString().trim()) ? 0 :
Integer.parseInt(M2.getText().toString().trim());
                int mark3 =
TextUtils.isEmpty(M3.getText().toString().trim()) ? 0 :
Integer.parseInt(M3.getText().toString().trim());

                int answer = mark1 + mark2 + mark3;

                Log.e("RESULT", String.valueOf(answer));
                tv1.setText(String.valueOf(answer));
            }else {
                tv1.setText("");
            }
        }

        @Override
        public void afterTextChanged(Editable editable)
        {

        }
    } ;
}

```

DatabaseHandler.java

```

package com.example.assignment_2;

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

import androidx.annotation.Nullable;

import java.util.ArrayList;
import java.util.List;

public class DatabaseHandler extends SQLiteOpenHelper {
    private static final String DATABASE_NAME = "studentdetail";
    private static final int VERSION = 3;
    private static final String TABLE_NAME = "student_master";
    private static final String StudId = "Stid";
    private static final String StudName = "Stname";
    private static final String StudRno = "Stroll";
    private static final String SMarks1 = "Stm1";
    private static final String SMarks2 = "Stm2";
    private static final String SMarks3 = "Stm3";
    private static final String STotalMark = "Sttotal";
    private static final String SEDate = "datetime";

    public DatabaseHandler(Context context) {
        super(context, DATABASE_NAME, null, VERSION);
    }

    @Override
    public void onCreate(SQLiteDatabase DB) {
        String CREATE_STUDENTMASTER_TABLE = "CREATE TABLE IF NOT EXISTS " +
        TABLE_NAME + " (" +
            StudId + " INTEGER PRIMARY KEY AUTOINCREMENT," +
            StudName + " TEXT ," +
            StudRno + " TEXT ," +
            SMarks1 + " TEXT ," +
            SMarks2 + " TEXT ," +
            SMarks3 + " TEXT ," +
            STotalMark + " TEXT ," +
            SEDate + " TEXT )";
        DB.execSQL(CREATE_STUDENTMASTER_TABLE);
    }

    @Override
    public void onUpgrade(SQLiteDatabase DB, int i, int il) {
        DB.execSQL("DROP TABLE IF EXISTS " + TABLE_NAME);
        onCreate(DB);
    }

    void AddStudent(StudentMaster sm) {

```

```

        SQLiteDatabase DB = this.getWritableDatabase();
        ContentValues cv = new ContentValues();
//        cv.put(StudId, sm.getStud_Id());
        cv.put(StudName, sm.getStud_Name());
        cv.put(StudRno, sm.getStud_Rno());
        cv.put(SMarks1, sm.getS_Marks1());
        cv.put(SMarks2, sm.getS_Marks2());
        cv.put(SMarks3, sm.getS_Marks3());
        cv.put(STotalMark, sm.getS_TotalMark());
        cv.put(SEDate, sm.getS_EDate());
        DB.insert(TABLE_NAME, null, cv);
        DB.close();

    }

    void AddStudent1(String sName) {

        SQLiteDatabase DB = this.getWritableDatabase();
        ContentValues cv = new ContentValues();
//        cv.put(StudId, sm.getStud_Id());
        cv.put(StudName, sName);
//        cv.put(StudRno, sm.getStud_Rno());
//        cv.put(SMarks1, sm.getS_Marks1());
//        cv.put(SMarks2, sm.getS_Marks2());
//        cv.put(SMarks3, sm.getS_Marks3());
//        cv.put(STotalMark, sm.getS_TotalMark());
//        cv.put(SEDate, sm.getS_EDate());
        DB.insert(TABLE_NAME, null, cv);
        DB.close();

    }

    public List<StudentMaster> getAllStudent()
    {
        List<StudentMaster> stlist = new ArrayList<StudentMaster>();
        String selectQuery = "SELECT * FROM " + TABLE_NAME;
        SQLiteDatabase DB = this.getWritableDatabase();
        Cursor cr = DB.rawQuery(selectQuery, null);

        if (cr.moveToFirst())
        {
            do {
                StudentMaster sm = new StudentMaster();
                sm.setStud_Id(Integer.parseInt(cr.getString(0)));
                sm.setStud_Name(cr.getString(1));
                sm.setStud_Rno(cr.getString(2));
                sm.setS_Marks1(cr.getString(3));
                sm.setS_Marks2(cr.getString(4));
                sm.setS_Marks3(cr.getString(5));
                sm.setS_TotalMark(cr.getString(6));
                sm.setS_EDate(cr.getString(7));

                stlist.add(sm);
            }
            while (cr.moveToNext());
        }
        return stlist;
    }
}

```

StudentMaster.java

```

package com.example.assignment_2;

public class StudentMaster
{
    public int Stud_Id;
    public String Stud_Name;
    public String Stud_Rno;
    public String S_Marks1;
    public String S_Marks2;
    public String S_Marks3;
    public String S_TotalMark;
    public String S_EDate;
    // empty Constructor
    public StudentMaster()
    {

    }

    public StudentMaster(int stud_Id, String stud_Name, String stud_Rno,
String s_Marks1, String s_Marks2, String s_Marks3, String s_TotalMark,
String s_EDate) {
        this.Stud_Id = stud_Id;
        this.Stud_Name = stud_Name;
        this.Stud_Rno = stud_Rno;
        this.S_Marks1 = s_Marks1;
        this.S_Marks2 = s_Marks2;
        this.S_Marks3 = s_Marks3;
        this.S_TotalMark = s_TotalMark;
        this.S_EDate = s_EDate;
    }

    public StudentMaster(String stud_Name, String stud_Rno, String
s_Marks1, String s_Marks2, String s_Marks3, String s_TotalMark, String
s_EDate) {
        this.Stud_Name = stud_Name;
        this.Stud_Rno = stud_Rno;
        this.S_Marks1 = s_Marks1;
        this.S_Marks2 = s_Marks2;
        this.S_Marks3 = s_Marks3;
        this.S_TotalMark = s_TotalMark;
        this.S_EDate = s_EDate;
    }

    public int getStud_Id() {
        return Stud_Id;
    }

    public void setStud_Id(int stud_Id) {
        Stud_Id = stud_Id;
    }

    public String getStud_Name() {
        return Stud_Name;
    }

    public void setStud_Name(String stud_Name) {
        Stud_Name = stud_Name;
    }
}

```

```

public String getStud_Rno() {
    return Stud_Rno;
}

public void setStud_Rno(String stud_Rno) {
    Stud_Rno = stud_Rno;
}

public String getS_Marks1() {
    return S_Marks1;
}

public void setS_Marks1(String s_Marks1) {
    S_Marks1 = s_Marks1;
}

public String getS_Marks2() {
    return S_Marks2;
}

public void setS_Marks2(String s_Marks2) {
    S_Marks2 = s_Marks2;
}

public String getS_Marks3() {
    return S_Marks3;
}

public void setS_Marks3(String s_Marks3) {
    S_Marks3 = s_Marks3;
}

public String getS_TotalMark() {
    return S_TotalMark;
}

public void setS_TotalMark(String s_TotalMark) {
    S_TotalMark = s_TotalMark;
}

public String getS_EDate() {
    return S_EDate;
}

public void setS_EDate(String s_EDate) {
    S_EDate = s_EDate;
}
}

```

activity_add_student.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"
    tools:context=".Add_StudentActivity"
    android:layout_margin="10dp"
    android:orientation="vertical">

```



```

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/tvheader"
    android:id="@+id/tvheader"
    android:layout_margin="20dp"
    android:padding="20dp"
    android:textColor="@color/white"
    android:background="@color/purple_500"/>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:orientation="vertical">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_gravity="center"
        android:orientation="vertical">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:layout_marginBottom="30dp"
            android:text="@string/title"
            android:textColor="@color/blue"
            android:textSize="25dp" />

    </LinearLayout>

<!--
    <LinearLayout-->
    <!--
        android:layout_width="match_parent"-->
    <!--
        android:layout_height="match_parent"-->
    <!--
        android:layout_gravity="center"-->
    <!--
        android:orientation="horizontal"-->

    <!--
        <TextView-->
    <!--
        android:layout_width="wrap_content"-->
    <!--
        android:layout_height="wrap_content"-->
    <!--
        android:layout_marginLeft="20dp"-->
    <!--
        android:text="@string/Stid"-->
    <!--
        android:textColor="@color/vred"-->
    <!--
        android:textSize="20dp" />-->

    <!--
        <EditText-->
    <!--
        android:id="@+id/Stuid"-->
    <!--
        android:layout_width="match_parent"-->
    <!--
        android:layout_height="wrap_content"-->
    <!--
        android:textColor="@color/black" />-->

<!--
    </LinearLayout-->

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"

```

```

        android:layout_gravity="center"
        android:orientation="horizontal">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginLeft="20dp"
            android:text="@string/Stname"
            android:textColor="@color/vred"
            android:textSize="20dp" />

        <EditText
            android:id="@+id/Stname"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textColor="@color/black" />

    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_gravity="center"
        android:orientation="horizontal">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginLeft="20dp"
            android:text="@string/Stroll"
            android:textColor="@color/vred"
            android:textSize="20dp" />

        <EditText
            android:id="@+id/Stroll"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textColor="@color/black" />

    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_gravity="center"
        android:orientation="horizontal">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginLeft="20dp"
            android:text="@string/M1"
            android:textColor="@color/vred"
            android:textSize="20dp" />

        <EditText
            android:id="@+id/M1"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textColor="@color/black" />

```

```

</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_gravity="center"
    android:orientation="horizontal">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="20dp"
        android:text="@string/M2"
        android:textColor="@color/vred"
        android:textSize="20dp" />

    <EditText
        android:id="@+id/M2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/black" />

</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_gravity="center"
    android:orientation="horizontal">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="20dp"
        android:text="@string/M3"
        android:textColor="@color/vred"
        android:textSize="20dp" />

    <EditText
        android:id="@+id/M3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/black" />

</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_gravity="center"
    android:orientation="horizontal">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="20dp"
        android:text="@string/total"

```

```

        android:textColor="@color/vred"
        android:textSize="20dp" />

        <TextView
            android:id="@+id/tv1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginLeft="20dp"
            android:textColor="@color/vred"
            android:textSize="20dp" />

    </LinearLayout>

<!--      <LinearLayout-->
<!--          android:layout_width="match_parent"-->
<!--          android:layout_height="match_parent"-->
<!--          android:layout_gravity="center"-->
<!--          android:orientation="horizontal"-->

<!--      <TextView-->
<!--          android:layout_width="wrap_content"-->
<!--          android:layout_height="wrap_content"-->
<!--          android:layout_marginLeft="20dp"-->
<!--          android:text="@string/tvdate"-->
<!--          android:textColor="@color/vred"-->
<!--          android:textSize="20dp"-->
<!--          android:id="@+id/tvdate"/>-->

<!--      <TextView-->
<!--          android:id="@+id/tdate"-->
<!--          android:layout_width="match_parent"-->
<!--          android:layout_height="wrap_content"-->
<!--          android:textColor="@color/black"-->
<!--          android:layout_margin="10dp"-->
<!--          android:padding="10dp"-->
<!--          android:textSize="20dp"/>-->

<!--      </LinearLayout-->

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_gravity="center"
    android:orientation="horizontal">

    <Button
        android:id="@+id/btn2"
        android:layout_width="394dp"
        android:layout_height="37dp"
        android:background="@color/blue"
        android:text="@string/btn2"
        android:textColor="@color/white"
        android:layout_margin="10dp"/>

</LinearLayout>

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_gravity="center"
    android:orientation="horizontal">

```

```

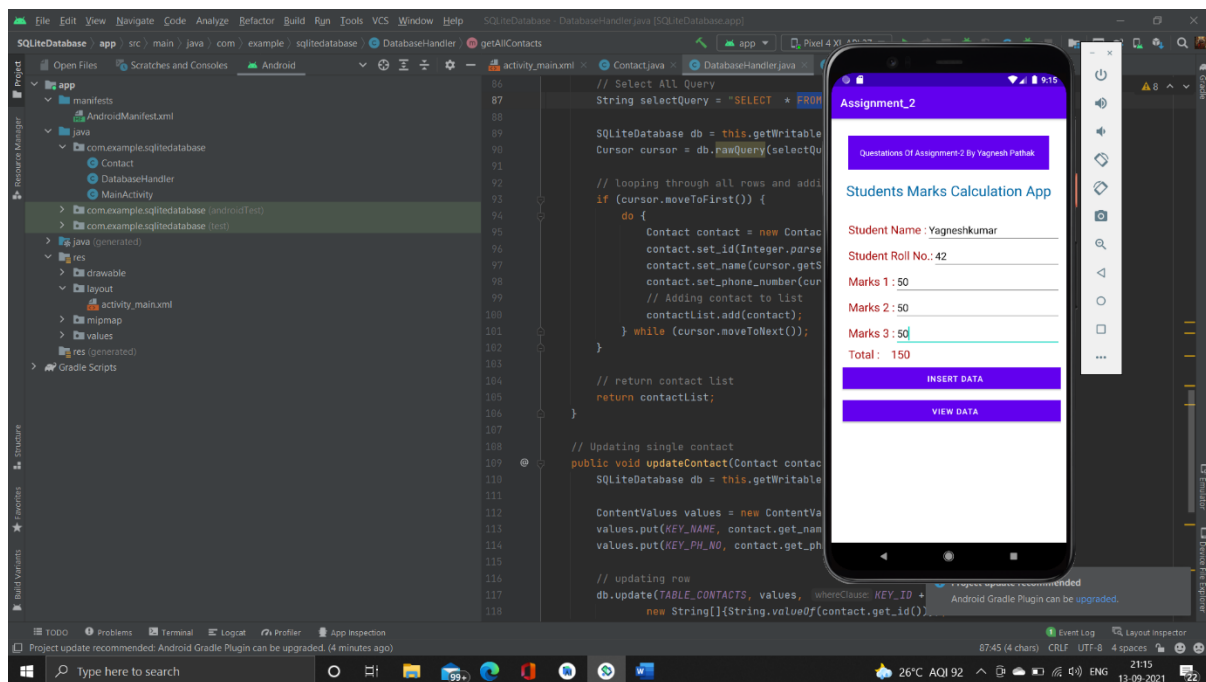
<Button
    android:id="@+id/btn3"
    android:layout_width="394dp"
    android:layout_height="37dp"
    android:background="@color/blue"
    android:text="@string/btn3"
    android:textColor="@color/white"
    android:layout_margin="10dp"/>
</LinearLayout>

</LinearLayout>

</LinearLayout>

```

Output:



Recycleradapter.java

```

package com.example.assignment_2;

import android.content.Context;
import android.content.Intent;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.TextView;

```

```

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import java.util.List;

public class recycleadapter extends
RecyclerView.Adapter<recycleadapter.MyViewHolder>
{
    Context context;
    int resource;
    List<StudentMaster>sm;
    public recycleadapter(Context context, int resource,
List<StudentMaster> sm) {

        this.context = context;
        this.resource = resource;
        this.sm = sm;

    }

    @NonNull
    @Override
    public MyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int
viewType)
    {
        View view =
LayoutInflater.from(parent.getContext()).inflate(resource,parent,false);

        return new MyViewHolder(view);

    }

    @Override
    public void onBindViewHolder(@NonNull MyViewHolder holder, int i)
    {

        holder.txtname.setText(sm.get(i).getStud_Name());
        holder.txttotal.setText(sm.get(i).getS_TotalMark());
        holder.txtdate.setText(sm.get(i).getS_EDate());

    }

    @Override
    public int getItemCount() {
        return sm.size();
    }

    public class MyViewHolder extends RecyclerView.ViewHolder
    {
        TextView txtname , txttotal , txtdate;
//        Button addtudent;

        public MyViewHolder(@NonNull View itemView)
        {

```

```

        super(itemView);
        txtname = itemView.findViewById(R.id.txtname);
        txttotal = itemView.findViewById(R.id.txttotal);
        txtdate = itemView.findViewById(R.id.txtdate);
        addtudent = itemView.findViewById(R.id.addstud);
//
//
//        addtudent.setOnClickListener(new View.OnClickListener() {
//            @Override
//            public void onClick(View view) {
//                Intent intent = new Intent(context,
View_StudentActivity.class);
//                context.startActivity(intent);
//
//            }
//        });
    }
}

```

View_StudentActivity.java

```

package com.example.assignment_2;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.os.Bundle;

import java.util.ArrayList;
import java.util.List;

public class View_StudentActivity extends AppCompatActivity
{
    RecyclerView rcv1;
    List<StudentMaster> sm;
    recycleadapter adapter;
    DatabaseHandler DB = new DatabaseHandler(this);

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_view_student);
        rcv1 = findViewById(R.id.rcv1);
        sm = new ArrayList<StudentMaster>();
        sm.addAll(DB.getAllStudent());
        adapter = new recycleadapter(this,R.layout.custom_design,sm);
        LinearLayoutManager manager = new
LinearLayoutManager(this,LinearLayoutManager.VERTICAL,false);
        rcv1.setLayoutManager(manager);
        rcv1.setAdapter(adapter);

    }
}

```


activity_view_student.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"
    tools:context=".View_StudentActivity">

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/rcv1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>

</LinearLayout>
```

custom_design.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:app="http://schemas.android.com/apk/res-auto">

    <androidx.cardview.widget.CardView
        app:cardElevation="10sp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <RelativeLayout
            android:background="@drawable/ic_launcher_background"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

            <TextView
                android:id="@+id/lblname"
                android:text="Name :"
                android:layout_marginLeft="10sp"
                android:textColor="@color/black"
                android:textStyle="bold"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"/>

            <TextView
                android:id="@+id/txtname"
                android:layout_toRightOf="@+id/lblname"
                android:textColor="@color/black"
                android:textStyle="bold"
                android:layout_marginLeft="10sp"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"/>

            <TextView
                android:id="@+id/lbltotal"
                android:layout_marginLeft="10sp"
                android:layout_below="@+id/txtname"
                android:textColor="@color/black"
                android:textStyle="bold">
```

```

        android:text="Total :"  

        android:layout_marginTop="5sp"  

        android:layout_width="wrap_content"  

        android:layout_height="wrap_content"/>

<TextView  

    android:id="@+id/txttotal"  

    android:layout_below="@+id/txtname"  

    android:textColor="@color/black"  

    android:textStyle="bold"  

    android:layout_marginTop="5sp"  

    android:layout_marginLeft="10sp"  

    android:layout_toRightOf="@+id/lbltotal"  

    android:layout_width="wrap_content"  

    android:layout_height="wrap_content"/>

<TextView  

    android:id="@+id/lbldate"  

    android:layout_marginLeft="10sp"  

    android:layout_below="@+id/lbltotal"  

    android:textColor="@color/black"  

    android:textStyle="bold"  

    android:text="Date Of Entry"  

    android:layout_width="wrap_content"  

    android:layout_height="wrap_content"/>

<TextView  

    android:id="@+id/txtdate"  

    android:layout_below="@+id/txttotal"  

    android:textColor="@color/black"  

    android:textStyle="bold"  

    android:layout_toRightOf="@+id/lbldate"  

    android:layout_marginLeft="10sp"  

    android:layout_width="wrap_content"  

    android:layout_height="wrap_content"/>

<Button  

    android:id="@+id/addstud"  

    android:layout_marginTop="80sp"  

    android:layout_centerHorizontal="true"  

    android:text="Add Student"  

    android:layout_width="wrap_content"  

    android:layout_height="wrap_content"/>

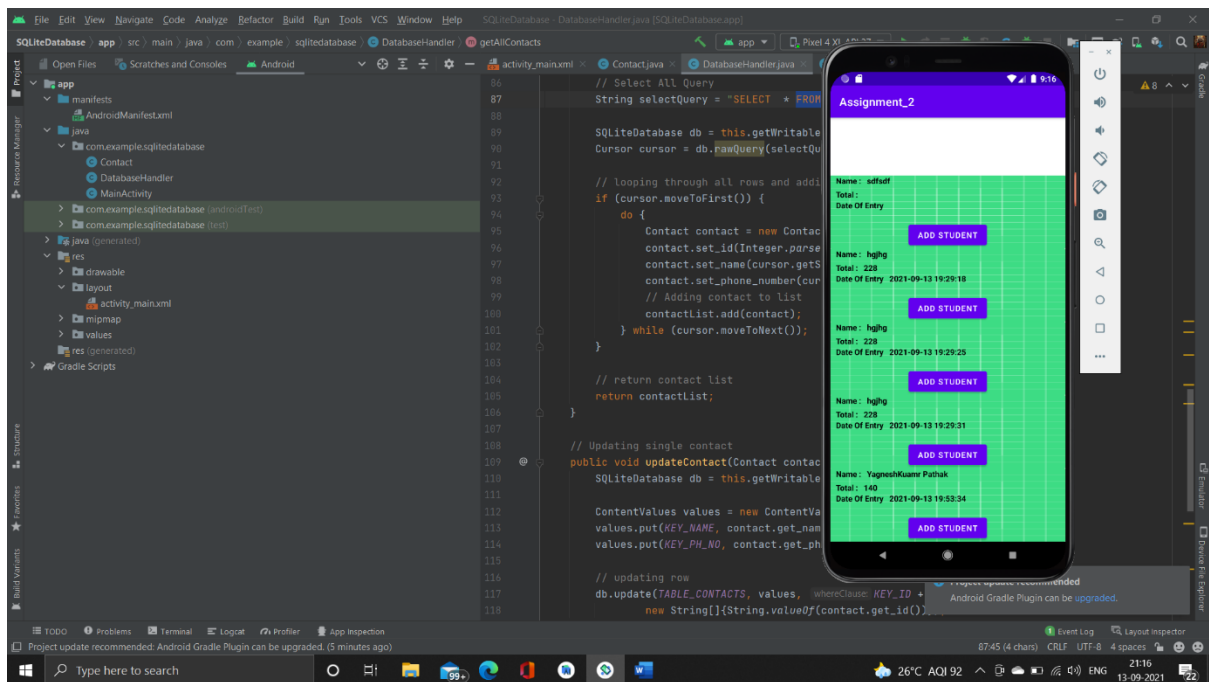
</RelativeLayout>

</androidx.cardview.widget.CardView>

</RelativeLayout>

```

Output :



student_option_menu.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:android="http://schemas.android.com/apk/res/android">

    <item android:title="Add Students Details"
        android:id="@+id/itadd"/>
    <item android:title="View Student Details"
        android:id="@+id/itview"/>
</menu>
```

Database Output :

	Stid	Sname	Stroll	Stm1	Stm2	Stm3	Sttotal	datetime
1	0	klj	89	78	78	88	244	2021-09-13 19:27:54
2	1	sdhdf	NULL	NULL	NULL	NULL	NULL	NULL
3	2	hgjh	67	76	76	76	228	2021-09-13 19:29:18
4	3	hgjh	67	76	76	76	228	2021-09-13 19:29:25
5	4	hgjh	67	76	76	76	228	2021-09-13 19:29:31
6	5	YagneshKumar Pathak	42	45	46	49	140	2021-09-13 19:53:34
7	6	Jigisha Patel	37	50	45	45	140	2021-09-13 19:57:57
8	7	Yagneshkumar	42	50	50	50	150	2021-09-13 20:18:19

PhpWebServiceActivity.java

```
package com.example.assignment_2;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.GridLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.app.AlertDialog;
import android.os.AsyncTask;
import android.os.Bundle;
import android.widget.Toast;

import org.json.JSONArray;
import org.json.JSONObject;

import java.util.ArrayList;

public class PhpWebServiceActivity extends AppCompatActivity
{
    RecyclerView rcv2;
    ArrayList<StudentMaster> students = new ArrayList<>();
    recycleadapter adapter;
    ProgressDialog progressDialog;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_php_web_service);
        rcv2 = findViewById(R.id.rcv2);
        new GetStudentMaster().execute();
    }
}
```

```

private class GetStudentMaster extends AsyncTask<Void,Void,Void>
{
    @Override
    protected void onPreExecute() {
        super.onPreExecute();
        progressDialog = new
ProgressDialog(PhpWebServiceActivity.this);
        progressDialog.setMessage("wait plzz");
        progressDialog.setCancelable(false);
        progressDialog.show();
        Toast.makeText(PhpWebServiceActivity.this, "Data is
Downloading", Toast.LENGTH_SHORT).show();
    }

    @Override
    protected Void doInBackground(Void... voids)
    {
        HttpHandler sh = new HttpHandler();
        String url = "http://192.168.116.107/students.php";
        String jsonStr = sh.getdata(url);
        try
        {
            if (jsonStr != null) {
                JSONArray jsonArray = new JSONArray(jsonStr);

                for(int i =0; i< jsonArray.length(); i++)
                {

                    JSONObject jsonObject = jsonArray.getJSONObject(i);
                    students.add(new StudentMaster(
                        jsonObject.getString("Stud_Name"),
                        jsonObject.getString("Stud_Rno"),
                        jsonObject.getString("S_Marks1"),
                        jsonObject.getString("S_Marks2"),
                        jsonObject.getString("S_Marks3"),
                        jsonObject.getString("S_TotalMark"),
                        jsonObject.getString("S_EDate")));

                }

            }
        }
        catch (Exception e)
        {

            e.printStackTrace();
        }

        return null;
    }
    @Override
    protected void onPostExecute(Void unused)
    {
        super.onPostExecute(unused);
        if (progressDialog.isShowing())
            progressDialog.dismiss();
        adapter = new
recycleadapter(PhpWebServiceActivity.this,R.layout.custom_design2,students)
;

        GridLayoutManager gridLayoutManager = new
GridLayoutManager(PhpWebServiceActivity.this,2);

```

```

        rcv2.setLayoutManager(gridLayoutManager);
        rcv2.setAdapter(adapter);
        adapter.notifyDataSetChanged();
    }
}
}

```

activity_php_web_service.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"
    tools:context=".PhpWebServiceActivity"
    android:orientation="vertical">
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/rcv2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">

        </androidx.recyclerview.widget.RecyclerView>
</LinearLayout>

```

activity_design2.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:app="http://schemas.android.com/apk/res-auto">

    <androidx.cardview.widget.CardView
        app:cardElevation="10sp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <RelativeLayout
            android:background="@drawable/ic_launcher_background"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

            <TextView
                android:id="@+id/lblname"
                android:text="Name :"
                android:layout_marginLeft="10sp"
                android:textColor="@color/black"
                android:textStyle="bold"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"/>

            <TextView
                android:id="@+id/txtname"
                android:layout_toRightOf="@+id/lblname"
                android:textColor="@color/black"
                android:textStyle="bold"

```

```

        android:layout_marginLeft="10sp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

<TextView
    android:id="@+id/lbltotal"
    android:layout_marginLeft="10sp"
    android:layout_below="@+id/txtname"
    android:textColor="@color/black"
    android:textStyle="bold"

    android:text="Total :"
    android:layout_marginTop="5sp"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"/>

<TextView
    android:id="@+id/txttotal"
    android:layout_below="@+id/txtname"
    android:textColor="@color/black"
    android:textStyle="bold"
    android:layout_marginTop="5sp"
    android:layout_marginLeft="10sp"
    android:layout_toRightOf="@+id/lbltotal"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"/>

<TextView
    android:id="@+id/lbldate"
    android:layout_marginLeft="10sp"
    android:layout_below="@+id/lbltotal"
    android:textColor="@color/black"
    android:textStyle="bold"

    android:text="Date Of Entry"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"/>

<TextView
    android:id="@+id/txtdate"
    android:layout_below="@+id/txttotal"
    android:textColor="@color/black"
    android:textStyle="bold"
    android:layout_toRightOf="@+id/lbldate"
    android:layout_marginLeft="10sp"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"/>

<!--
<Button-->
    android:id="@+id/addstud"-->
    android:layout_marginTop="80sp"-->
    android:layout_centerHorizontal="true"-->
    android:text="Add Student"-->
    android:layout_width="wrap_content"-->
    android:layout_height="wrap_content"/>-->

</RelativeLayout>

```

```

</androidx.cardview.widget.CardView>

</RelativeLayout>

```

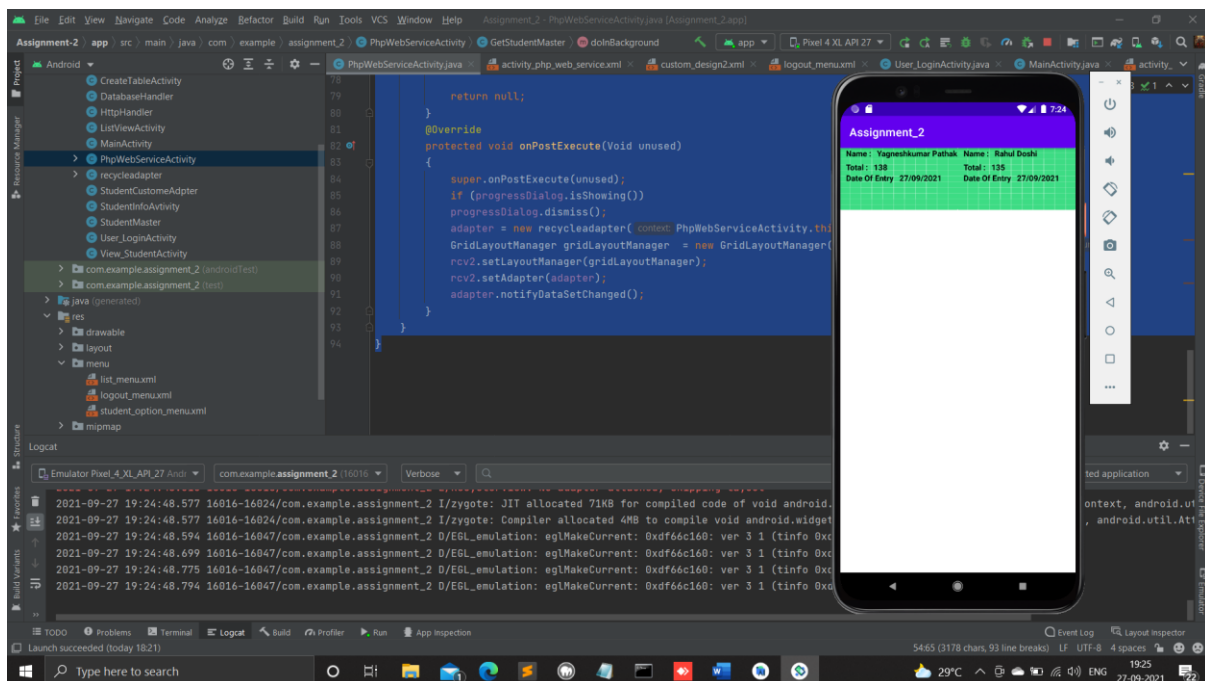
Logout_menu.xml

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
    <item
        android:id="@+id/logout"
        android:title="Logout"
        app:showAsAction="always"/>
</menu>

```

Output:



Student.php

```

<?php

```

```

$con = mysqli_connect("localhost:3306","root","root","student_db");

```

```

if(!$con)

```

```

{

```



```
        die("error is" .mysql_error($con));

    }

    $result = mysqli_query($con , "select * from student_master");

    if(mysqli_num_rows($result) > 0)
    {

        while($row = mysqli_fetch_assoc($result))
        {
            $array [] = $row;

        }

    }

    header('Content-Type:Application/json');

    echo json_encode($array);

    mysqli_free_result($result);

    mysqli_close($con);

?>
```

Output:

The screenshot shows the JSON Formatter website at <https://jsonformatter.org/json-parser>. The JSON input is a valid array of two student records. The website has a green header with navigation links: JSON PARSER, XML FORMATTER, JSBEAUTIFIER, SAVE, RECENT LINKS, and LOGIN. The main content area has a green background with a 'JSON Parser' title. On the left, the JSON input is shown in a code editor. On the right, the JSON is formatted and displayed in a tree view. The tree view shows the root array containing two objects. The first object represents a student with ID 1, Name 'Yagneshkumar Pathak', Rno 42, and marks of 45, 45, 48, totaling 138. The second object represents a student with ID 2, Name 'Rahul Doshi', Rno 10, and marks of 45, 45, 45, totaling 135. The date for both is 27/09/2021. The website also has buttons for 'Load Data', 'JSON Parser', 'Format JSON', and 'Download'. A banner at the bottom says 'FREE SKILLS START HERE.' with a 'Learn for free' button.

```

1 [{"Stud_Id":1,"Stud_Name":"Yagneshkumar Pathak","Stud_Rno":42,"S_Marks1":45,"S_Marks2":45,"S_Marks3":48,"S_TotalMark":138,"S_EDate":"27/09/2021"}, {"Stud_Id":2,"Stud_Name":"Rahul Doshi","Stud_Rno":10,"S_Marks1":45,"S_Marks2":45,"S_Marks3":45,"S_TotalMark":135,"S_EDate":"27/09/2021"}]

```

Tree view structure:

- 0 (8)
 - Stud_Id : 1
 - Stud_Name : Yagneshkumar Pathak
 - Stud_Rno : 42
 - S_Marks1 : 45
 - S_Marks2 : 45
 - S_Marks3 : 48
 - S_TotalMark : 138
 - S_EDate : 27/09/2021
- 1 (8)
 - Stud_Id : 2
 - Stud_Name : Rahul Doshi
 - Stud_Rno : 10
 - S_Marks1 : 45
 - S_Marks2 : 45
 - S_Marks3 : 45
 - S_TotalMark : 135
 - S_EDate : 27/09/2021

The screenshot shows the phpMyAdmin database interface. The server is localhost:3306, and the database is student_db. The table 'student_master' is selected. The table structure shows columns: Stud_Id, Stud_Name, Stud_Rno, S_Marks1, S_Marks2, S_Marks3, S_TotalMark, and S_EDate. The table contains two rows of data. The first row is for Yagneshkumar Pathak (Stud_Id: 1, Stud_Rno: 42, S_Marks1: 45, S_Marks2: 45, S_Marks3: 48, S_TotalMark: 138, S_EDate: 27/09/2021). The second row is for Rahul Doshi (Stud_Id: 2, Stud_Rno: 10, S_Marks1: 45, S_Marks2: 45, S_Marks3: 45, S_TotalMark: 135, S_EDate: 27/09/2021). The interface includes a left sidebar with a database tree, a top navigation bar with options like Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, and Triggers. The main area shows the table data with options to edit, delete, or export rows. The bottom of the interface has a console area.

Stud_Id	Stud_Name	Stud_Rno	S_Marks1	S_Marks2	S_Marks3	S_TotalMark	S_EDate
1	Yagneshkumar Pathak	42	45	45	48	138	27/09/2021
2	Rahul Doshi	10	45	45	45	135	27/09/2021