activity main.xml

```
<RelativeLayout
        android:text="Student List"
    <androidx.appcompat.widget.AppCompatButton</pre>
    <androidx.recyclerview.widget.RecyclerView</pre>
</RelativeLayout>
```

std item layout.xml

```
android:layout width="wrap content"
android:layout alignParentTop="true"
```

activity_insert.xml

```
<pr
```

```
<com.google.android.material.textfield.TextInputLayout</pre>
        android:layout height="wrap content"
        android:layout marginTop="12dp">
        <com.google.android.material.textfield.TextInputEditText</pre>
            android:layout height="wrap content"
            android:inputType="text"
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout</pre>
        android:layout marginTop="12dp">
        <com.google.android.material.textfield.TextInputEditText</pre>
            android:layout height="wrap content"
            android:textSize="20sp"/>
    </com.google.android.material.textfield.TextInputLayout>
        android:layout width="match parent"
        android:layout height="wrap content"
</LinearLayout>
```

MainActivity.kt

```
import Student
import androidx.appcompat.app.AppCompatActivity
import androidx.recyclerview.widget.LinearLayoutManager
import com.example.lab8mysql queryinsert.databinding.ActivityMainBinding
import retrofit2.Call
import retrofit2.converter.gson.GsonConverterFactory
class MainActivity : AppCompatActivity() {
    var studentList = arrayListOf<Student>()
        super.onCreate(savedInstanceState)
        binding = ActivityMainBinding.inflate(layoutInflater)
        setContentView(binding.root)
StudentsAdapter (this.studentList, applicationContext)
        binding.recyclerView.addItemDecoration(
                DividerItemDecoration.VERTICAL)
        binding.btnAddStudent.setOnClickListener{
            startActivity(intent)
    override fun onResume() {
        callStudentData()
    private fun callStudentData() {
        studentList.clear();
            .addConverterFactory(GsonConverterFactory.create())
            .build()
        serv.retrieveStudent()
                override fun onResponse(call: Call<List<Student>>,
                                         response: Response<List<Student>>) {
                    response.body()?.forEach{
studentList.add(Student(it.std id,it.std name,it.std age))
```

Student.kt

```
import com.google.gson.annotations.Expose
import com.google.gson.annotations.SerializedName

data class Student(
    @Expose
    @SerializedName("std_id") val std_id:String,

    @Expose
    @SerializedName("std_name") val std_name:String,

    @Expose
    @SerializedName("std_age") val std_age:String,
)
```

StudentsAdapter.kt

StudentAPI.kt

```
package com.example.lab8mysql_queryinsert

import Student
import android.telecom.Call
import retrofit2.http.Field
import retrofit2.http.FormUrlEncoded
import retrofit2.http.GET
import retrofit2.http.POST

interface StudentAPI {
    @GET("allstd")
    fun retrieveStudent(): retrofit2.Call<List<Student>>

    @FormUrlEncoded
    @POST("std")
    fun insertStd(
        @Field("std_id") std_id:String,
        @Field("std_name") std_name:String,
        @Field("std_age") std_age: Int): retrofit2.Call<Student>
}
```

InsertActivity.kt

```
import androidx.appcompat.app.AppCompatActivity
import retrofit2.converter.gson.GsonConverterFactory
        setContentView(binding.root)
    fun addStudent() {
        val api: StudentAPI = Retrofit.Builder()
            .build()
            binding.edtId.text.toString(),
            binding.edtName.text.toString(),
            binding.edtAge.text.toString().toInt(),
        ).enqueue(object : Callback<Student> +
            override fun onResponse(call: Call<Student>, response:
Response<Student>) {
Toast.LENGTH LONG) .show()
```