MainActivity.kt

```
import androidx.appcompat.app.AppCompatActivity
import android.view.LayoutInflater
import androidx.appcompat.app.AlertDialog
import androidx.recyclerview.widget.LinearLayoutManager
        super.onCreate(savedInstanceState)
        setContentView(binding.root)
        callStudentdata()
    override fun onResume() {
        callStudentdata()
    fun callStudentdata(){
        studentList.addAll(dbHandler.getAllStudent())
    fun addStudentDialog(view: View) {
        val mDialogView =
       val myBuilder = AlertDialog.Builder(this)
```

```
myBuilder.apply {
    setView(mDialogView)
    setPositiveButton("Save") { dialog, _ ->
        val id = mDialogView.findViewById(R.id.edtId) as

TextInputEditText
    val name = mDialogView.findViewById(R.id.edtName) as

TextInputEditText
    val age = mDialogView.findViewById(R.id.edtAge) as

TextInputEditText

    var result = dbHandler.insertStudent(Student(id=id.text.toString(), name=name.text.toString(), age=age.text.toString().toInt()
    ))
    if(result>-1) {
        Toast.makeText(applicationContext, "Inserted success", Toast.LENGTH_LONG).show()
        dialog.dismiss()
        callStudentdata()
    }else {
        Toast.makeText(applicationContext, "Inserted failure", Toast.LENGTH_LONG).show()
    }

    setNegativeButton("Cancel",) { dialog, _ -> dialog.dismiss()
        show()
    }
    show()
}
```

• EditDeleteActivity.kt

```
dbHandler = DatabaseHelper.getInstance(baseContext)
    binding.edtName.setText(mName)
override fun onOptionsItemSelected(item: MenuItem): Boolean {
        finish()
fun saveStudent(v: View){
    var id = binding.edtId.text.toString()
    var name = binding.edtName.text.toString()
    var age = binding.edtAge.text.toString().toInt()
```

Student.kt

```
package layout

data class Student(val id:String,val name: String,val age:Int) {
}
```

DatabaseHelper.kt

```
import android.database.sqlite.SQLiteDatabase
import android.database.sqlite.SQLiteException
import android.database.sqlite.SQLiteOpenHelper
       fun getInstance(c:Context):DatabaseHelper{
   override fun onCreate(db: SQLiteDatabase?) {
       val CREATE TABLE = "CREATE TABLE $TABLE NAME ($COLUMN ID TEXT PRIMARY
       db?.execSQL(CREATE TABLE)
       db?.execSQL(sqlInsert)
   override fun onUpgrade (db: SQLiteDatabase?, oldVersion: Int, newVersion:
       db?.execSQL("DROP TABLE IF EXISTS $TABLE NAME")
       onCreate(db)
   fun getAllStudent():ArrayList<Student> {
```

```
onCreate (db)
            id=cursor.getString(cursor.getColumnIndex(COLUMN ID))
            name = cursor.getString(cursor.getColumnIndex(COLUMN NAME))
            cursor.moveToNext()
fun insertStudent(std:Student):Long{
fun updateStudent(std: Student):Int{
```

• StudentsAdapter.kt

```
import androidx.recyclerview.widget.RecyclerView
StdItemLayoutBinding):
            binding.txtEdit.setOnClickListener{
                intent.putExtra("mAge", item.age.toString())
    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
StdItemLayoutBinding.inflate(LayoutInflater.from(parent.context),
    override fun getItemCount(): Int {
```

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activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:text="Student List"
        android:textColor="#0B0B0B"
        android:textStyle="bold"/>
    <android:textStyle="bold"/>
    <android:dayout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:d="0+id/btnAddstudent"
        android:text="Add Student"
        android:textColor="#ffff"
        android:textColor="#ffff"
        android:padding="7dp"
        android:layout_alignParentRight="true"/>
    <androidx.recyclerview.widget.RecyclerView
        android:layout_beight="match_parent"
        android:layout_beight="match_parent"
        android:clayout_height="match_parent"
        android:clayout_beight="match_parent"
        android:clayout_beight="match_parent"
        android:clayout_beight="match_parent"
        android:clayout_beight="wertical"
        android:layout_below="@id/btnAddstudent"/>
        </RelativeLayout>
```

insert_layout.xml

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

activity_edit_delete.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   android: layout width="match parent"
   android:orientation="vertical"
   <TextView
        android:layout width="match parent"
        android:textAlignment="center"
   <com.google.android.material.textfield.TextInputLayout</pre>
            android:inputType="text"
            android:textSize="20sp"/>
   </com.google.android.material.textfield.TextInputLayout>
   <com.google.android.material.textfield.TextInputLayout</pre>
            android:inputType="text"
        android:layout marginTop="12dp">
        <com.google.android.material.textfield.TextInputEditText</pre>
            android:layout height="wrap content"
```

std_item_layout.xml

```
android:text="Age"
    android:textSize="20sp"/>

<TextView
    android:id="@+id/txtEdit"
    android:layout_width="80dp"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentRight="true"
    android:layout_centerVertical="true"
    android:textColor="#fc6b10"
    android:gravity="center"
    android:textSize="15sp"
    android:textStyle="bold"
    android:textStyle="bold"
    android:text="EDIT/DELETE"/>
</RelativeLayout>
```