Activity_main.xml:-

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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:background="@drawable/textile" tools:context=".MainActivity">
   <TextView android:id="@+id/textView"
       android:layout_width="wrap_content"
       android:layout_height="wrap_content"
       android:layout_marginStart="16dp"
       android:layout_marginBottom="42dp"
       android:text="Bill
       android:textSize="18sp"
       app:layout_constraintBottom_toTopOf="@+id/textView2"
       app:layout constraintStart toStartOf="parent" />
   <TextView android:id="@+id/textView2"
       android:layout_width="wrap_content"
       android:layout_height="wrap_content"
android:layout_marginStart="16dp"
       android:layout_marginBottom="50dp"
       android:text="Name
       android:textSize="18sp"
       app:layout_constraintBottom_toTopOf="@+id/textView3"
       app:layout constraintStart toStartOf="parent" />
   <TextView android:id="@+id/textView3"
       android:layout_width="wrap content"
       android:layout_height="wrap_content"
       android:layout_marginStart="16dp"
       android:layout_marginBottom="46dp"
       android:text="Phone no'
       android:textSize="18sp"
       app:layout_constraintBottom_toTopOf="@+id/textView4"
       app:layout_constraintStart_toStartOf="parent" />
   <TextView android:id="@+id/textView4"
       android:layout_width="wrap_content"
       android:layout_height="wrap_content"
       android:layout_marginStart="16dp"
       android:layout_marginBottom="96dp"
       android:text="Purchase amount"
       android:textSize="18sp"
       app:layout_constraintBottom_toTopOf="@+id/button"
```

```
app:layout_constraintStart_toStartOf="parent" />
<EditText android:id="@+id/Phone.no"
   android:layout_width="wrap content"
   android:layout height="wrap content"
   android:layout_marginEnd="24dp"
   android:layout_marginBottom="20dp"
   android:ems="10"
   android:inputType="number"
   app:layout constraintBottom toTopOf="@+id/editTextName"
   app:layout constraintEnd toEndOf="parent" />
<EditText android:id="@+id/editTextName"
   android:layout width="wrap content"
   android:layout_height="wrap_content"
   android:layout_marginEnd="24dp"
   android:layout_marginBottom="28dp"
   android:ems="10'
   android:inputType="textPersonName"
   app:layout_constraintBottom_toTopOf="@+id/bill"
   app:layout constraintEnd toEndOf="parent" />
<EditText android:id="@+id/bill"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_marginEnd="24dp'
   android:layout_marginBottom="24dp"
   android:ems="10" android:inputType="number"
   app:layout_constraintBottom_toTopOf="@+id/purchase"
   app:layout constraintEnd toEndOf="parent" />
<EditText android:id="@+id/purchase"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_marginStart="66dp"
   android:layout_marginEnd="69dp'
   android:layout_marginBottom="98dp"
   android:ems="10"
   android:inputType="textPersonName"
   app:layout_constraintBottom_toTopOf="@+id/button2"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout constraintStart toEndOf="@+id/textView4" />
<Button android:id="@+id/button"</pre>
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_marginStart="32dp"
   android:layout_marginBottom="28dp" android:text="Add"
   app:layout_constraintBottom_toTopOf="@+id/button3"
   app:layout_constraintStart_toStartOf="parent" />
<Button android:id="@+id/button2"</pre>
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
```

```
android:layout_marginEnd="132dp"
       android:layout_marginBottom="28dp"
       android:text="View All"
       app:layout constraintBottom toTopOf="@+id/button4"
       app:layout_constraintEnd_toEndOf="parent" />
   <Button android:id="@+id/button3"</pre>
       android:layout_width="wrap_content"
       android:layout_height="wrap_content"
       android:layout_marginStart="32dp"
       android:layout_marginBottom="52dp"
       app:layout_constraintBottom_toBottomOf="parent"
       app:layout_constraintStart_toStartOf="parent" />
   <Button android:id="@+id/button4"</pre>
       android:layout width="wrap content"
       android:layout_height="wrap_content"
       android:layout marginEnd="132dp"
       android:layout marginBottom="52dp"
       android:text="Delete'
       app:layout_constraintBottom_toBottomOf="parent"
       app:layout_constraintEnd_toEndOf="parent" />
   <TextView android:id="@+id/textView5"
       android:layout_width="wrap_content"
       android:layout_height="wrap content"
       android:layout marginTop="32dp"
       android:text="Textile shop"
       android:textColor="#3F51B5"
       android:textSize="36sp"
       app:layout_constraintEnd_toEndOf="parent"
       app:layout_constraintHorizontal_bias="0.497"
       app:layout_constraintStart_toStartOf="parent"
       app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Main activity.java:-

```
import androidx.appcompat.app.AlertDialog;
import
androidx.appcompat.app.AppCompatActivity;
import android.database.Cursor; import
android.os.Bundle; import android.view.View;
import android.widget.Button; import
android.widget.EditText; import
android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    DatabaseHelper myDb;
    Button ButtonAdd, ButtonView, ButtonUpdate, ButtonDelete;
    EditText Bill;
    EditText name, phone, purchase;
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity main); myDb = new
   DatabaseHelper(this); ButtonAdd =
   findViewById(R.id.button);
   ButtonView = findViewById(R.id.button2);
   ButtonUpdate = findViewById(R.id.button3);
   ButtonDelete = findViewById(R.id.button4);
   Bill = findViewById(R.id.bill); name =
   findViewById(R.id.editTextName); phone =
   findViewById(R.id.Phone_no); purchase =
   findViewById(R.id.purchase); AddData();
   viewAll(); updatedata(); DeleteData();
void updatedata() {
   ButtonUpdate.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View v) { boolean isUpdate =
          myDb.updateData(Bill.getText().toString(),
                  name.getText().toString(), phone.getText().toString(),
                    purchase.getText().toString());
          if (isUpdate == true)
              Toast.makeText(MainActivity.this, "Data Updated",
                       Toast.LENGTH_LONG).show();
              Toast.makeText(MainActivity.this, "Data not Updated",
       Toast.LENGTH_LONG).show(); }
public void DeleteData() {
   ButtonDelete.setOnClickListener(new View.OnClickListener() {
      @Override
       public void onClick(View v) {
          Integer deletedRows = myDb.deleteData(Bill.getText().toString()); if
          (deletedRows > 0)
              Toast.makeText(MainActivity.this, "Data Deleted",
                       Toast.LENGTH_LONG).show();
              Toast.makeText(MainActivity.this, "Data not Deleted",
       Toast.LENGTH LONG).show(); }
   }); }
oublic void AddData() {
   ButtonAdd.setOnClickListener(new View.OnClickListener() {
      @Override
       public void onClick(View v) { boolean isInserted =
          myDb.insertData(name.getText().toString(),
                 phone.getText().toString(),
                    purchase.getText().toString());
          if (isInserted == true) {
              Toast.makeText(MainActivity.this, "Data Inserted",
                       Toast.LENGTH_SHORT).show();
```

```
Toast.makeText(MainActivity.this, "Data not Inserted",
           Toast.LENGTH SHORT).show(); }
public void viewAll() {
   ButtonView.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) { Cursor res =
          myDb.getAllData(); if (res.getCount() == 0) {
           // show message showMessage("Error", "No Data
          StringBuffer buffer = new StringBuffer(); while
           (res.moveToNext()) { buffer.append("Bill :" +
          res.getString(0) + "\n"); buffer.append("Name :" +
          res.getString(1) + "\n"); buffer.append("Phone :" +
          res.getString(2) + "\n"); buffer.append("Purchase :" +
          res.getString(3) + "\n\n");
           showMessage("Data", buffer.toString()); }
public void showMessage(String title, String Message) {
   AlertDialog.Builder builder = new AlertDialog.Builder(this);
   builder.setCancelable(true); builder.setTitle(title);
   builder.setMessage(Message); builder.show();
```

Databasehelper:-

```
package com.example.ayeshatextileshop_0101;
import android.content.ContentValues; import
android.content.Context; import
android.database.Cursor; import
androidx.annotation.Nullable;
public class DatabaseHelper extends SQLiteOpenHelper{
   public static final String DATABASE_NAME = "shop.db";
   public static final String TABLE NAME = "Shop Table";
   public static final String col_1 = "Bill"; public
   static final String col_2 = "NAME"; public static
   final String col_3 = "Phone"; public static final
   String col_4 = "Purchase"; public
   DatabaseHelper(@Nullable Context context) {
   super(context, DATABASE NAME, null, 1); }
```

```
@Override
public void onCreate(SQLiteDatabase db) { db.execSQL("create table
@Override
public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion)
    { db.execSQL("DROP TABLE IF EXISTS "+TABLE_NAME); onCreate(db);
public boolean insertData(String name, String phone, String purchase) {
   SQLiteDatabase db = this.getWritableDatabase();
   ContentValues contentValues = new ContentValues();
   contentValues.put(col_2, name);
   contentValues.put(col_3, phone);
   contentValues.put(col_4, purchase);
   long result = db.insert(TABLE_NAME, null,
   contentValues); if (result == -1) { return false;
public Cursor getAllData()
   SQLiteDatabase db = this.getWritableDatabase();
   Cursor res = db.rawQuery("select * from "+TABLE_NAME, null);
   return res;
publicbooleanupdateData(Stringbill,Stringname,Stringphone,Stringpurchase) {
   SQLiteDatabase db = this.getWritableDatabase();
   ContentValues contentValues = new ContentValues();
   contentValues.put(col_1,bill);
contentValues.put(col_2,name);
   contentValues.put(col_3,phone);
   contentValues.put(col_4,purchase);
   db.update(TABLE_NAME, contentValues, "ID = ?",new String[] { bill });
   return true;
public Integer deleteData (String id)
   SQLiteDatabase db = this.getWritableDatabase();
   return db.delete(TABLE_NAME, "ID = ?", new String[] {id});
```

Screenshots:-

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26 ButtonRedeem= findViewById(R.id.button3);
27 ButtonRedeem= findViewById(R.id.button4);
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