**Activity**

**BillListingActivity**

**package** com.example.rahuljoshi.tasksqlitedb.activity;  
  
**import** android.content.Intent;  
**import** android.databinding.DataBindingUtil;  
**import** android.os.Bundle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.LinearLayoutManager;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.Toast;  
  
**import** com.example.rahuljoshi.tasksqlitedb.R;  
**import** com.example.rahuljoshi.tasksqlitedb.adapter.BillAdapter;  
**import** com.example.rahuljoshi.tasksqlitedb.callback.CallbackBill;  
**import** com.example.rahuljoshi.tasksqlitedb.databinding.ActivityBilllistingBinding;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_billmaster;  
**import** com.example.rahuljoshi.tasksqlitedb.table.Tbl\_billmaster;  
  
**import** java.util.ArrayList;  
  
**public class** BillListingActivity **extends** AppCompatActivity **implements** CallbackBill {  
 ActivityBilllistingBinding **mBinding**;  
 BillAdapter **recyclerBillAdapter**;  
 ArrayList<Model\_billmaster> **billMasterModelList**;  
 Tbl\_billmaster **tbl\_billmaster**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 *//setContentView(R.layout.activity\_billlisting);* **mBinding**= DataBindingUtil.*setContentView*(**this**, R.layout.activity\_billlisting);  
 **tbl\_billmaster**=**new** Tbl\_billmaster(**this**);  
 **billMasterModelList**=(ArrayList<Model\_billmaster>) **tbl\_billmaster**.onSelectAll();  
 **if**(**billMasterModelList**==**null** ||**billMasterModelList**.size()<=0)  
 {  
 **mBinding**.**txtDataNotFound**.setVisibility(View.***VISIBLE***);  
 }  
 **if**(**billMasterModelList**!=**null** && **billMasterModelList**.size()>0)  
 {  
 **recyclerBillAdapter** = **new** BillAdapter(getApplicationContext(), **billMasterModelList**, **this**);  
 **mBinding**.**recyclerviewViewBill**.setLayoutManager(**new** LinearLayoutManager(BillListingActivity.**this**));  
 **mBinding**.**recyclerviewViewBill**.setAdapter(**recyclerBillAdapter**);  
 }  
 }  
  
 @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
 getMenuInflater().inflate(R.menu.add\_menu,menu);  
 **return true**;  
 }  
  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 **switch** (item.getItemId())  
 {  
 **case** R.id.add\_menu:  
 Intent i=**new** Intent(BillListingActivity.**this**,AddDataActivity.**class**);  
 i.putExtra(**"mkey"**, **"insert"**);  
 startActivity(i);  
 }  
 **return super**.onOptionsItemSelected(item);  
 }  
  
 @Override  
 **public void** onDeleteBill(**int** position) {  
 Boolean result = **tbl\_billmaster**.onDeleteBill(String.*valueOf*(**billMasterModelList**.get(position).getBILL\_ID()));  
 **billMasterModelList**.remove(position);  
 **if** (result) {  
 Toast.*makeText*(**this**, **""**+getResources().getString(R.string.datadelete), Toast.***LENGTH\_SHORT***).show();  
 **recyclerBillAdapter**.notifyDataSetChanged();  
 **if**(**billMasterModelList**.isEmpty())  
 {  
 **mBinding**.**txtDataNotFound**.setVisibility(View.***VISIBLE***);  
 }  
 } **else** {  
 Toast.*makeText*(**this**, **""**+getResources().getString(R.string.datanotdelete), Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
  
 @Override  
 **public void** onUpdateBill(Model\_billmaster billMasterModelList) {  
 Intent intent=**new** Intent(**this**,AddDataActivity.**class**);  
 intent.putExtra(**"modelobj"**, billMasterModelList);  
 intent.putExtra(**"mkey"**, **"update"**);  
 startActivity(intent);  
 }  
}

**AddDataActivity**

**package** com.example.rahuljoshi.tasksqlitedb.activity;  
  
**import** android.annotation.SuppressLint;  
**import** android.content.Intent;  
**import** android.databinding.DataBindingUtil;  
**import** android.os.Build;  
**import** android.os.Bundle;  
**import** android.support.annotation.RequiresApi;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.LinearLayoutManager;  
**import** android.text.Editable;  
**import** android.text.TextUtils;  
**import** android.text.TextWatcher;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.view.WindowManager;  
**import** android.widget.AdapterView;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.RadioButton;  
**import** android.widget.Toast;  
  
**import** com.example.rahuljoshi.tasksqlitedb.R;  
**import** com.example.rahuljoshi.tasksqlitedb.adapter.ProductAdapter;  
**import** com.example.rahuljoshi.tasksqlitedb.adapter.ProductInsertAdapter;  
**import** com.example.rahuljoshi.tasksqlitedb.callback.CallbackProduct;  
**import** com.example.rahuljoshi.tasksqlitedb.databinding.ActivityInsertdataBinding;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_billdetails;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_billmaster;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_productmaster;  
**import** com.example.rahuljoshi.tasksqlitedb.table.Tbl\_billdetails;  
**import** com.example.rahuljoshi.tasksqlitedb.table.Tbl\_billmaster;  
**import** com.example.rahuljoshi.tasksqlitedb.table.Tbl\_productmaster;  
  
**import** java.text.SimpleDateFormat;  
**import** java.util.ArrayList;  
**import** java.util.Date;  
**import** java.util.List;  
**import** java.util.Random;  
  
**public class** AddDataActivity **extends** AppCompatActivity **implements** CallbackProduct {  
 ActivityInsertdataBinding **mBinding**;  
 Model\_billdetails **billDetailModel**;  
 **int mtotalAmountCount** =0,**mBill\_ld**,**mtotalAmount**, **mprice**;  
 List <Model\_productmaster> **tempararyAddDataModels**=**new** ArrayList<>();  
 List <Model\_productmaster> **productMasterModelList**;  
 Tbl\_productmaster **tbl\_productmaster**;  
 Tbl\_billmaster **tbl\_billmaster**;  
 Tbl\_billdetails **tbl\_billdetails**;  
 String **mproduct\_id**;  
 ArrayList<Model\_billmaster> **billMasterModelList**;  
 List<Model\_productmaster> **billGettingModels**;  
 Boolean **mresult**;  
 String **mid**, **mbillno**, **mname**, **madd**, **mgender**, **mkey**;  
 ProductAdapter **recyclerProductAdapter**;  
 ProductInsertAdapter **recyclerProductInsertAdapter**;  
 ArrayList<Model\_billdetails> **model\_billdetailsArrayList**;  
 ArrayList<Model\_billmaster> **model\_billmasterArrayList**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_insertdata);  
 getSupportActionBar().setDisplayHomeAsUpEnabled(**true**);  
  
 **mBinding**= DataBindingUtil.*setContentView*(**this**,R.layout.activity\_insertdata);  
  
 **mkey** =getIntent().getStringExtra(**"mkey"**);  
  
 *//If Table is Empty than store data in table* **tbl\_productmaster**=**new** Tbl\_productmaster(**this**);  
 **tbl\_billmaster**=**new** Tbl\_billmaster(**this**);  
 **tbl\_billdetails**=**new** Tbl\_billdetails(**this**);  
 **model\_billdetailsArrayList**=**new** ArrayList<>();  
 **model\_billmasterArrayList**=**new** ArrayList<>();  
  
 **productMasterModelList**=(ArrayList<Model\_productmaster>) **tbl\_productmaster**.onSelectAll();  
  
 **if**(**productMasterModelList**==**null** ||**productMasterModelList**.size()<=0) {  
 **productMasterModelList** = (ArrayList<Model\_productmaster>)**tbl\_productmaster**.onSelectAll();  
 loadSpinnerData();  
 }  
 **if**(**productMasterModelList**!=**null** && **productMasterModelList**.size()>=0){  
 **productMasterModelList** = (ArrayList<Model\_productmaster>)**tbl\_productmaster**.onSelectAll();  
 loadSpinnerData();  
 }  
 *//For insert data* **if**(**mkey**.equals(**"insert"**)) {  
 InsertFuntionCall();  
 }  
 **if**(**mkey**.equals(**"update"**)){  
 *//For update bill details* UpdateFunctionCall();  
 }  
 }  
  
 **private void** UpdateFunctionCall() {  
 **mBinding**.**nameEdt**.addTextChangedListener(**new** MyTextWatcher(**mBinding**.**nameEdt**));  
 **mBinding**.**addEdt**.addTextChangedListener(**new** MyTextWatcher(**mBinding**.**addEdt**));  
 **mBinding**.**rateEdt**.addTextChangedListener(**new** MyTextWatcher(**mBinding**.**rateEdt**));  
 **mBinding**.**edtQuantity**.addTextChangedListener(**new** MyTextWatcher(**mBinding**.**edtQuantity**));  
 **mBinding**.**totalPriceEdt**.addTextChangedListener(**new** MyTextWatcher(**mBinding**.**totalPriceEdt**));  
  
 **mBinding**.**txtValueUpdate**.setVisibility(View.***VISIBLE***);  
 Model\_billmaster mymodel = (Model\_billmaster) getIntent().getSerializableExtra(**"modelobj"**);  
  
 **mid** = String.*valueOf*(mymodel.getBILL\_ID());  
 **mbillno** = mymodel.getBILL\_NO();  
 **mname** = mymodel.getCUSTOMER\_NAME();  
 **madd** = mymodel.getADDRESS();  
 **mgender** = mymodel.getGENDER();  
 **mtotalAmount** = mymodel.getTOTAL\_AMOUNT();  
  
 **mBinding**.**billnoEdt**.setText(**""**+ **mbillno**);  
 **mBinding**.**nameEdt**.setText(**mname**);  
 **mBinding**.**addEdt**.setText(**madd**);  
 **mBinding**.**totalPriceEdt**.setText(**""** + **mtotalAmount**);  
 **mBinding**.**billnoEdt**.setEnabled(**false**);  
 **mBinding**.**nameEdt**.setEnabled(**false**);  
 **mBinding**.**radioButtonMale**.setEnabled(**false**);  
 **mBinding**.**radioButtonFemale**.setEnabled(**false**);  
 **if** (**mgender**.equals(**"Male"**)) {  
 **mBinding**.**radioButtonMale**.setChecked(**true**);  
 }  
 **if** (**mgender**.equals(**"Female"**)) {  
 **mBinding**.**radioButtonFemale**.setChecked(**true**);  
 }  
  
 **mBinding**.**edtQuantity**.addTextChangedListener(**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**(**mBinding**.**edtQuantity**.getText().toString().length() > 0)  
 {  
 String StringEditNum= **mBinding**.**edtQuantity**.getText().toString();  
 String Stringrate=**mBinding**.**rateEdt**.getText().toString();  
 Double EditNum = Double.*parseDouble*(StringEditNum);  
 Double EdtRate=Double.*parseDouble*(Stringrate);  
 **mBinding**.**totalPriceEdt**.setText(**""** + EditNum\*EdtRate);  
 }  
 }  
 @Override  
 **public void** afterTextChanged(Editable editable) {  
  
 }  
 });  
  
 *//Insert Product* **mBinding**.**addProductBtn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 **if**(!validateQuantity()) {  
 }  
 **else** {  
 **billDetailModel** = **new** Model\_billdetails();  
 **billDetailModel**.setPRODUCT\_MASTER\_ID(Integer.*parseInt*(**mproduct\_id**));  
 **billDetailModel**.setBILL\_MASTER\_ID(Integer.*parseInt*(**mid**));  
 **billDetailModel**.setQUANTITY(Integer.*parseInt*(**mBinding**.**edtQuantity**.getText().toString()));  
 **billDetailModel**.setPRICE(Integer.*parseInt*(**mBinding**.**rateEdt**.getText().toString()));  
 **model\_billdetailsArrayList**.add(**billDetailModel**);  
 **mresult** = **tbl\_billdetails**.onInsertDataBillDetail(**model\_billdetailsArrayList**);  
  
 **if** (**mresult**) {  
  
 Toast.*makeText*(AddDataActivity.**this**, getResources().getString(R.string.productadd), Toast.***LENGTH\_SHORT***).show();  
  
 } **else** {  
 Toast.*makeText*(AddDataActivity.**this**, getResources().getString(R.string.productaddfailed), Toast.***LENGTH\_SHORT***).show();  
 }  
  
 **billGettingModels**=(ArrayList<Model\_productmaster>) **tbl\_productmaster**.onGetAllProductWithJoinTableWithBillId(**mid**);  
 **recyclerProductAdapter** = **new** ProductAdapter(**billGettingModels**, AddDataActivity.**this**);  
 **mBinding**.**recylcerShowProduct**.setLayoutManager(**new** LinearLayoutManager(AddDataActivity.**this**));  
 **mBinding**.**recylcerShowProduct**.setAdapter(**recyclerProductAdapter**);  
 **recyclerProductAdapter**.notifyDataSetChanged();  
 }  
 }  
 });  
  
 **billGettingModels**=(ArrayList<Model\_productmaster>) **tbl\_productmaster**.onGetAllProductWithJoinTableWithBillId(**mid**);  
 **if**(**billGettingModels**==**null**)  
 {  
 Toast.*makeText*(**this**, **"Product Not Found"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 **recyclerProductAdapter** = **new** ProductAdapter(**billGettingModels**, **this**);  
 **mBinding**.**recylcerShowProduct**.setLayoutManager(**new** LinearLayoutManager(AddDataActivity.**this**));  
 **mBinding**.**recylcerShowProduct**.setAdapter(**recyclerProductAdapter**);  
 **recyclerProductAdapter**.notifyDataSetChanged();  
 }  
 }  
  
 @SuppressLint(**"StringFormatMatches"**)  
 **private void** InsertFuntionCall() {  
 **mBinding**.**nameEdt**.addTextChangedListener(**new** MyTextWatcher(**mBinding**.**nameEdt**));  
 **mBinding**.**addEdt**.addTextChangedListener(**new** MyTextWatcher(**mBinding**.**addEdt**));  
 **mBinding**.**rateEdt**.addTextChangedListener(**new** MyTextWatcher(**mBinding**.**rateEdt**));  
 **mBinding**.**edtQuantity**.addTextChangedListener(**new** MyTextWatcher(**mBinding**.**edtQuantity**));  
 **mBinding**.**totalPriceEdt**.addTextChangedListener(**new** MyTextWatcher(**mBinding**.**totalPriceEdt**));  
  
 **mBinding**.**billnoEdt**.setEnabled(**false**);  
  
 Random random = **new** Random();  
 **int** value = random.nextInt(10000);  
 **mBinding**.**billnoEdt**.setText(getResources().getString(R.string.randomvalue,value));  
 **mBinding**.**radioButtonMale**.setChecked(**true**);  
  
 **mBinding**.**edtQuantity**.addTextChangedListener(**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**(**mBinding**.**edtQuantity**.getText().toString().length() > 0){  
 String StringEditNum= **mBinding**.**edtQuantity**.getText().toString();  
 String Stringrate=**mBinding**.**rateEdt**.getText().toString();  
 Double EditNum = Double.*parseDouble*(StringEditNum);  
 Double EdtRate=Double.*parseDouble*(Stringrate);  
 **mBinding**.**totalPriceEdt**.setText(**""** + EditNum\*EdtRate);  
 }  
 }  
 @Override  
 **public void** afterTextChanged(Editable editable) {  
 }  
 });  
  
 *//Insert Product* **mBinding**.**addProductBtn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 **if**(!validateRate()) {  
 }  
 **else if**(!validateQuantity()) {  
 }  
 **else if**(!validateTotalPrice()) {  
 }  
 **else** {*//madd temporary value in model* **tempararyAddDataModels**.add(**new** Model\_productmaster(Integer.*parseInt*(**mproduct\_id**),**mBinding**.**productSpinner**.getSelectedItem().toString(), Integer.*parseInt*(**mBinding**.**rateEdt**.getText().toString()), **mBinding**.**edtQuantity**.getText().toString(), (**int**) Double.*parseDouble*(**mBinding**.**totalPriceEdt**.getText().toString()),0,0,0,**null**,**null**,**null**));  
 Toast.*makeText*(AddDataActivity.**this**, getResources().getString(R.string.productadd), Toast.***LENGTH\_SHORT***).show();  
 loadSpinnerData();  
 **mBinding**.**edtQuantity**.setText(**"1"**);  
 **mBinding**.**rateEdt**.setText(**""**+ **mprice**);  
 **mBinding**.**totalPriceEdt**.setText(**""**+ **mprice**);  
  
 **recyclerProductInsertAdapter** = **new** ProductInsertAdapter(**tempararyAddDataModels**,AddDataActivity.**this**);  
 **mBinding**.**recylcerShowProduct**.setLayoutManager(**new** LinearLayoutManager(AddDataActivity.**this**));  
 **mBinding**.**recylcerShowProduct**.setAdapter(**recyclerProductInsertAdapter**);  
 }  
 }  
 });  
 }  
  
 **private void** loadSpinnerData() {  
  
 *// Creating adapter for spinner* ArrayAdapter < Model\_productmaster > adapter = **new** ArrayAdapter < Model\_productmaster>(AddDataActivity.**this**,android.R.layout.***simple\_spinner\_item***, **productMasterModelList**);  
 *// Drop down layout style - list view with radio button* adapter.setDropDownViewResource(android.R.layout.***simple\_spinner\_dropdown\_item***);  
 *// attaching data adapter to spinner* **mBinding**.**productSpinner**.setAdapter(adapter);  
  
 **mBinding**.**productSpinner**.setOnItemSelectedListener(**new** AdapterView.OnItemSelectedListener() {  
 @Override  
 **public void** onItemSelected(AdapterView<?> adapterView, View view, **int** i, **long** l) {  
 **mproduct\_id** = String.*valueOf*(**productMasterModelList**.get(i).getPROCUCT\_ID());  
 **mprice** =**productMasterModelList**.get(i).getPRODUCT\_PRICE();  
 **mBinding**.**rateEdt**.setText(**""**+ **mprice**);  
 **if**(**mkey**.equals(**"update"**)) {  
 **mBinding**.**rateEdt**.setText(**""** + **mprice**);  
 **mBinding**.**totalPriceEdt**.setText(**""** + **mprice**);  
 **mBinding**.**rateEdt**.setEnabled(**false**);  
 **mBinding**.**totalPriceEdt**.setEnabled(**false**);  
 }  
 **if**(**mkey**.equals(**"insert"**)) {  
 **mBinding**.**rateEdt**.setText(**""** + **mprice**);  
 **mBinding**.**totalPriceEdt**.setText(**""** + **mprice**);  
 **mBinding**.**rateEdt**.setEnabled(**false**);  
 **mBinding**.**totalPriceEdt**.setEnabled(**false**);  
 }  
 }  
  
 @Override  
 **public void** onNothingSelected(AdapterView<?> adapterView) {  
  
 }  
 });  
 }  
  
 @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
 **if**(**mkey**.equals(**"insert"**)) {  
 getMenuInflater().inflate(R.menu.save\_menu, menu);  
 }  
 **if**(**mkey**.equals(**"update"**))  
 {  
 getMenuInflater().inflate(R.menu.update\_menu, menu);  
 }  
 **return true**;  
 }  
  
 @SuppressLint(**"StringFormatInvalid"**)  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 SimpleDateFormat sdf = **new** SimpleDateFormat(**"dd/MMM/yyyy hh:mm:ss"**);  
 String currentDate = sdf.format(**new** Date());  
  
 **int** selecteId=**mBinding**.**radioGroupMaleFemale**.getCheckedRadioButtonId();  
 RadioButton radioButton=(RadioButton) findViewById(selecteId);  
 Model\_billmaster billMasterModel = **null**;  
 **if** (**mkey**.equals(**"insert"**)) {  
 **switch** (item.getItemId()) {  
 **case** R.id.save\_menu:  
 onInsertDataIntoBillMasterAndBillDetail(billMasterModel,radioButton,currentDate);  
 **break**;  
 **case** android.R.id.***home***:  
 onBackPressed();  
 **return true**;  
 }  
 }  
 **if** (**mkey**.equals(**"update"**)) {  
 **switch** (item.getItemId()) {  
 **case** R.id.update\_menu:  
 onUpdateDataIntoBillMasterAndBillDetail(billMasterModel,radioButton,currentDate);  
 **break**;  
 **case** android.R.id.***home***:  
 onBackPressed();  
 **return true**;  
 }  
 }  
 **return super**.onOptionsItemSelected(item);  
 }  
  
 **private void** requestFocus(View view) {  
 **if** (view.requestFocus()) {  
 getWindow().setSoftInputMode(WindowManager.LayoutParams.***SOFT\_INPUT\_STATE\_ALWAYS\_VISIBLE***);  
 }  
 }  
  
 **private boolean** validateRate() {  
 **if** (TextUtils.*isEmpty*(**mBinding**.**rateEdt**.getText().toString().trim())) {  
 **mBinding**.**textInputRate**.setError(getResources().getString(R.string.msg\_enter,**mBinding**.**textInputRate**.getHint().toString()));  
 requestFocus(**mBinding**.**rateEdt**);  
 **return false**;  
 } **else** {  
 **mBinding**.**textInputRate**.setErrorEnabled(**false**);  
 }  
  
 **return true**;  
 }  
  
 **private boolean** validateQuantity() {  
 **if** (TextUtils.*isEmpty*(**mBinding**.**edtQuantity**.getText().toString().trim())) {  
 **mBinding**.**textInputQuantity**.setError(getResources().getString(R.string.msg\_enter,**mBinding**.**textInputQuantity**.getHint().toString()));  
 requestFocus(**mBinding**.**edtQuantity**);  
 **return false**;  
 } **else** {  
 **mBinding**.**textInputQuantity**.setErrorEnabled(**false**);  
 }  
  
 **return true**;  
 }  
  
 **private boolean** validateTotalPrice() {  
 **if** (TextUtils.*isEmpty*(**mBinding**.**totalPriceEdt**.getText().toString().trim())) {  
 **mBinding**.**textInputTotalPrice**.setError(getResources().getString(R.string.msg\_enter,**mBinding**.**textInputTotalPrice**.getHint().toString()));  
 requestFocus(**mBinding**.**totalPriceEdt**);  
 **return false**;  
 } **else** {  
 **mBinding**.**textInputTotalPrice**.setErrorEnabled(**false**);  
 }  
 **return true**;  
 }  
  
 **private boolean** validateAddress() {  
 **if** (TextUtils.*isEmpty*(**mBinding**.**addEdt**.getText().toString())) {  
 **mBinding**.**textInputAddress**.setError(getResources().getString(R.string.msg\_enter,**mBinding**.**textInputAddress**.getHint().toString()));  
 requestFocus(**mBinding**.**addEdt**);  
 **return false**;  
 } **else** {  
 **mBinding**.**textInputAddress**.setErrorEnabled(**false**);  
 }  
  
 **return true**;  
 }  
  
 **private boolean** validateName() {  
 **if** (TextUtils.*isEmpty*(**mBinding**.**nameEdt**.getText().toString().trim())) {  
 **mBinding**.**textInputName**.setError(getResources().getString(R.string.msg\_enter,**mBinding**.**textInputName**.getHint().toString()));  
 requestFocus(**mBinding**.**nameEdt**);  
 **return false**;  
 } **else** {  
 **mBinding**.**textInputName**.setErrorEnabled(**false**);  
 }  
  
 **return true**;  
 }  
  
 @Override  
 **public void** onDeleteProduct(**int** position) {  
 Boolean result = **tbl\_productmaster**.onDeleteProduct(String.*valueOf*(**billGettingModels**.get(position).getBill\_detail\_id()));  
 **billGettingModels**.remove(position);  
 **if** (result) {  
 Toast.*makeText*(**this**, getResources().getString(R.string.productdelete), Toast.***LENGTH\_SHORT***).show();  
 **recyclerProductAdapter**.notifyDataSetChanged();  
 } **else** {  
 Toast.*makeText*(**this**,getResources().getString(R.string.datanotdelete), Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
  
 @Override  
 **public void** onDeleteTempararyProduct(**int** position) {  
 **tempararyAddDataModels**.remove(position);  
 Toast.*makeText*(**this**,getResources().getString(R.string.productdelete), Toast.***LENGTH\_SHORT***).show();  
 **recyclerProductInsertAdapter**.notifyDataSetChanged();  
 }  
  
 @RequiresApi(api = Build.VERSION\_CODES.***N***)  
 @Override  
 **public void** onUpdateTempararyProduct(**int** position, String quantity, **double** TotalPrice) {  
 **tempararyAddDataModels**.get(position).setQuantity(quantity);  
 **tempararyAddDataModels**.get(position).setTotalprice((**int**) TotalPrice);  
 **recyclerProductInsertAdapter**.notifyDataSetChanged();  
 }  
  
 **private class** MyTextWatcher **implements** TextWatcher {  
  
 **private** View **view**;  
  
 **private** MyTextWatcher(View view) {  
 **this**.**view** = view;  
 }  
  
 **public void** beforeTextChanged(CharSequence charSequence, **int** i, **int** i1, **int** i2) {  
 }  
  
 **public void** onTextChanged(CharSequence charSequence, **int** i, **int** i1, **int** i2) {  
 }  
  
 **public void** afterTextChanged(Editable editable) {  
 **switch** (**view**.getId()) {  
 **case** R.id.name\_edt:  
 validateName();  
 **break**;  
 **case** R.id.add\_edt:  
 validateAddress();  
 **break**;  
 **case** R.id.rate\_edt:  
 validateRate();  
 **break**;  
 **case** R.id.edt\_quantity:  
 validateQuantity();  
 **break**;  
 **case** R.id.total\_price\_edt:  
 validateTotalPrice();  
 **break**;  
 }  
 }  
 }  
  
 **private void** onUpdateDataIntoBillMasterAndBillDetail(Model\_billmaster billMasterModel, RadioButton radioButton, String currentDate) {  
 **if** (TextUtils.*isEmpty*(**mBinding**.**addEdt**.getText().toString().trim())) {  
 Toast.*makeText*(getApplicationContext(), getResources().getString(R.string.enterupdatedaddress), Toast.***LENGTH\_SHORT***).show();  
 } **else** {  
 *//update record from bill master table  
  
 //Calculate total* **for**(**int** i = 0; i<**billGettingModels**.size(); i++)  
 {  
 **int** qty = Integer.*parseInt*(**billGettingModels**.get(i).getQuantity());  
 **double** price = **billGettingModels**.get(i).getPRODUCT\_PRICE();  
 **mtotalAmountCount** +=qty\*price;  
 }  
 billMasterModel = **new** Model\_billmaster();  
 billMasterModel.setBILL\_ID(Integer.*parseInt*(**mid**));  
 billMasterModel.setBILL\_NO(**mBinding**.**billnoEdt**.getText().toString());  
 billMasterModel.setCUSTOMER\_NAME(**mBinding**.**nameEdt**.getText().toString());  
 billMasterModel.setADDRESS(**mBinding**.**addEdt**.getText().toString());  
 billMasterModel.setGENDER(String.*valueOf*(radioButton.getText().toString()));  
 billMasterModel.setTOTAL\_AMOUNT(**mtotalAmountCount**);  
 billMasterModel.setDATETIME(currentDate);  
 **model\_billmasterArrayList**.add(billMasterModel);  
 **mresult** = **tbl\_billmaster**.onUpdateDataBillMaster(**model\_billmasterArrayList**);  
  
 *//Get Temporary Data From Array List* **for** (**int** j = 0; j < **billGettingModels**.size(); j++) {  
 *//Insert Record From Database Bill Detail* **billDetailModel** = **new** Model\_billdetails();  
 **billDetailModel**.setBILL\_DETAIL\_ID(**billGettingModels**.get(j).getBill\_detail\_id());  
 **billDetailModel**.setPRODUCT\_MASTER\_ID(**billGettingModels**.get(j).getPROCUCT\_ID());  
 **billDetailModel**.setBILL\_MASTER\_ID(Integer.*parseInt*(**mid**));  
 **billDetailModel**.setQUANTITY(Integer.*parseInt*(**billGettingModels**.get(j).getQuantity()));  
 **billDetailModel**.setPRICE(Integer.*parseInt*(String.*valueOf*(**billGettingModels**.get(j).getPRODUCT\_PRICE())));  
 **model\_billdetailsArrayList**.add(**billDetailModel**);  
 **mresult** = **tbl\_billdetails**.onUpdateDataBillDetail(**model\_billdetailsArrayList**);  
 }  
  
 **if** (**mresult** == **true**) {  
  
 Toast.*makeText*(**this**, getResources().getString(R.string.dataupdated), Toast.***LENGTH\_SHORT***).show();  
 Intent i = **new** Intent(AddDataActivity.**this**, BillListingActivity.**class**);  
 startActivity(i);  
 } **else** {  
 Toast.*makeText*(**this**, getResources().getString(R.string.dataupdatedfailed), Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
 }  
  
 **private void** onInsertDataIntoBillMasterAndBillDetail(Model\_billmaster billMasterModel, RadioButton radioButton, String currentDate) {  
 **if** (TextUtils.*isEmpty*(**mBinding**.**billnoEdt**.getText().toString().trim())) {  
 **mBinding**.**textInputBillNo**.setErrorEnabled(**true**);  
 **mBinding**.**textInputBillNo**.setError(getResources().getString(R.string.msg\_enter,**mBinding**.**textInputBillNo**.getHint().toString()));  
 } **else if** (!validateName()) {  
  
 } **else if** (!validateAddress()) {  
  
 }**else if**(!**mBinding**.**radioButtonMale**.isChecked() && !**mBinding**.**radioButtonFemale**.isChecked())  
 {  
 Toast.*makeText*(**this**, getResources().getString(R.string.selectgender), Toast.***LENGTH\_SHORT***).show();  
 }  
 **else if** (**tempararyAddDataModels**.isEmpty()) {  
 Toast.*makeText*(**this**, getResources().getString(R.string.addproductfirst), Toast.***LENGTH\_SHORT***).show();  
 } **else** {  
 **mBinding**.**textInputBillNo**.setErrorEnabled(**false**);  
 **mBinding**.**textInputName**.setErrorEnabled(**false**);  
 **mBinding**.**textInputAddress**.setErrorEnabled(**false**);  
  
 *//Calculate total* **for**(**int** i = 0; i<**tempararyAddDataModels**.size(); i++)  
 {  
 **int** qty = Integer.*parseInt*(**tempararyAddDataModels**.get(i).getQuantity());  
 **double** price = Double.*parseDouble*(String.*valueOf*(**tempararyAddDataModels**.get(i).getPRODUCT\_PRICE()));  
 **mtotalAmountCount** +=qty\*price;  
 }  
  
 *//Insert Record From Database Bill Master* ArrayList<Model\_billmaster> model\_billmasterArrayList=**new** ArrayList<>();  
 billMasterModel = **new** Model\_billmaster();  
 billMasterModel.setBILL\_NO(**mBinding**.**billnoEdt**.getText().toString());  
 billMasterModel.setCUSTOMER\_NAME(**mBinding**.**nameEdt**.getText().toString());  
 billMasterModel.setADDRESS(**mBinding**.**addEdt**.getText().toString());  
 billMasterModel.setGENDER(String.*valueOf*(radioButton.getText().toString()));  
 billMasterModel.setTOTAL\_AMOUNT(**mtotalAmountCount**);  
 billMasterModel.setDATETIME(currentDate);  
 model\_billmasterArrayList.add(billMasterModel);  
 **mresult** = **tbl\_billmaster**.onInsertDataBillMaster(model\_billmasterArrayList);  
  
 *//Get Last Record Bill Id From Database* **billMasterModelList** = (ArrayList<Model\_billmaster>) **tbl\_billmaster**.onReadLastRecordFromDatabase();  
 **if**(**billMasterModelList**!=**null** && **billMasterModelList**.size()>=0) {  
 **for** (**int** i = 0; i < **billMasterModelList**.size(); i++) {  
 **mBill\_ld** = **billMasterModelList**.get(i).getBILL\_ID();  
 }  
 }  
 *//Get Temporary Data From Array List* **for** (**int** j = 0; j < **tempararyAddDataModels**.size(); j++) {  
 *//Insert Record From Database Bill Detail* **billDetailModel** = **new** Model\_billdetails();  
 **billDetailModel**.setPRODUCT\_MASTER\_ID(**tempararyAddDataModels**.get(j).getPROCUCT\_ID());  
 **billDetailModel**.setBILL\_MASTER\_ID(**mBill\_ld**);  
 **billDetailModel**.setQUANTITY(Integer.*parseInt*(**tempararyAddDataModels**.get(j).getQuantity()));  
 **billDetailModel**.setPRICE(Integer.*parseInt*(String.*valueOf*(**tempararyAddDataModels**.get(j).getPRODUCT\_PRICE())));  
 **model\_billdetailsArrayList**.add(**billDetailModel**);  
 **mresult** = **tbl\_billdetails**.onInsertDataBillDetail(**model\_billdetailsArrayList**);  
 }  
  
 **if** (**mresult**) {  
 **mBinding**.**billnoEdt**.setText(**""**);  
 **mBinding**.**nameEdt**.setText(**""**);  
 **mBinding**.**addEdt**.setText(**""**);  
 Toast.*makeText*(**this**, getResources().getString(R.string.datainsert), Toast.***LENGTH\_SHORT***).show();  
 Intent i = **new** Intent(AddDataActivity.**this**, BillListingActivity.**class**);  
 startActivity(i);  
 } **else** {  
 Toast.*makeText*(**this**, getResources().getString(R.string.dataaddfailed), Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
 }  
}

**Adapter**

**BillAdapter**

**package** com.example.rahuljoshi.tasksqlitedb.adapter;  
  
**import** android.annotation.SuppressLint;  
**import** android.content.Context;  
**import** android.support.annotation.NonNull;  
**import** android.support.v7.widget.RecyclerView;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.Button;  
**import** android.widget.TextView;  
  
**import** com.example.rahuljoshi.tasksqlitedb.R;  
**import** com.example.rahuljoshi.tasksqlitedb.callback.CallbackBill;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_billmaster;  
  
**import** java.util.ArrayList;  
  
**public class** BillAdapter **extends** RecyclerView.Adapter<BillAdapter.MyViewHolder> {  
 Context **context**;  
 ArrayList<Model\_billmaster> **billMasterModelList**=**new** ArrayList<>();  
 CallbackBill **mcallback**;  
 **public** BillAdapter(Context context, ArrayList<Model\_billmaster> billMasterModelList, CallbackBill mcallback) {  
 **this**.**context**=context;  
 **this**.**billMasterModelList**=billMasterModelList;  
 **this**.**mcallback**=mcallback;  
 }  
  
 @NonNull  
 @Override  
 **public** MyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, **int** viewType) {  
 View itemView = LayoutInflater.*from*(**context**)  
 .inflate(R.layout.***row\_displaydata***, parent, **false**);  
  
 **return new** MyViewHolder(itemView);  
 }  
  
 @SuppressLint({**"StringFormatInvalid"**, **"StringFormatMatches"**})  
 @Override  
 **public void** onBindViewHolder(@NonNull MyViewHolder holder, **final int** position) {  
 holder.**txt\_name**.setText(**billMasterModelList**.get(position).getCUSTOMER\_NAME());  
 holder.**txt\_billno**.setText(**billMasterModelList**.get(position).getBILL\_NO());  
 *//Display Like Rs 100/-* holder.**txt\_price**.setText(**context**.getResources().getString(R.string.***rstotalvalue***,**billMasterModelList**.get(position).getTOTAL\_AMOUNT()));  
 holder.**txt\_date\_time**.setText(**billMasterModelList**.get(position).getDATETIME());  
  
 holder.**update\_btn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 **mcallback**.onUpdateBill(**billMasterModelList**.get(position));  
 }  
 });  
 holder.**delete\_btn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 **mcallback**.onDeleteBill(position);  
 }  
 });  
 }  
  
 @Override  
 **public int** getItemCount() {  
 **return billMasterModelList**.size();  
 }  
  
 **public class** MyViewHolder **extends** RecyclerView.ViewHolder {  
 **public** TextView **txt\_name**,**txt\_billno**,**txt\_price**,**txt\_date\_time**;  
 **public** Button **update\_btn**,**delete\_btn**;  
  
 **public** MyViewHolder(View view) {  
 **super**(view);  
 **txt\_name**=(TextView)view.findViewById(R.id.***txt\_name***);  
 **txt\_billno**=(TextView)view.findViewById(R.id.***txt\_billno***);  
 **txt\_price**=(TextView)view.findViewById(R.id.***txt\_price***);  
 **txt\_date\_time**=(TextView)view.findViewById(R.id.***txt\_date\_time***);  
 **update\_btn**=(Button)view.findViewById(R.id.***update\_btn***);  
 **delete\_btn**=(Button)view.findViewById(R.id.***delete\_btn***);  
 }  
 }  
}

**ProductAdapter**

**package** com.example.rahuljoshi.tasksqlitedb.adapter;  
  
**import** android.os.Build;  
**import** android.support.annotation.NonNull;  
**import** android.support.annotation.RequiresApi;  
**import** android.support.v7.widget.RecyclerView;  
**import** android.text.Editable;  
**import** android.text.TextWatcher;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
  
**import** com.example.rahuljoshi.tasksqlitedb.R;  
**import** com.example.rahuljoshi.tasksqlitedb.callback.CallbackProduct;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_productmaster;  
  
**import** java.util.List;  
  
**public class** ProductAdapter **extends** RecyclerView.Adapter<ProductAdapter.MyViewHolder>{  
 List<Model\_productmaster> **billGettingModels**;  
 CallbackProduct **mcallback**;  
 **public** ProductAdapter(List<Model\_productmaster> billGettingModels, CallbackProduct mcallback) {  
 **this**.**billGettingModels**=billGettingModels;  
 **this**.**mcallback**=mcallback;  
 }  
  
 @NonNull  
 @Override  
 **public** MyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, **int** viewType) {  
 View itemView = LayoutInflater.*from*(parent.getContext())  
 .inflate(R.layout.***row\_productdisplaydata***, parent, **false**);  
  
 **return new** MyViewHolder(itemView);  
 }  
  
 @Override  
 **public void** onBindViewHolder(@NonNull **final** MyViewHolder holder, **final int** position) {  
  
 holder.**edt\_product\_name**.setText(**billGettingModels**.get(position).getPRODUCT\_NAME());  
 holder.**edt\_product\_qty**.setText(**""**+**billGettingModels**.get(position).getQuantity());  
 holder.**edt\_product\_price**.setText(**""**+**billGettingModels**.get(position).getPRODUCT\_PRICE());  
 holder.**edt\_product\_total\_price**.setText(**""**+Integer.*parseInt*(**billGettingModels**.get(position).getQuantity())\***billGettingModels**.get(position).getPRODUCT\_PRICE());  
  
 holder.**edt\_product\_name**.setEnabled(**false**);  
 holder.**edt\_product\_qty**.setEnabled(**false**);  
 holder.**edt\_product\_price**.setEnabled(**false**);  
 holder.**edt\_product\_total\_price**.setEnabled(**false**);  
  
 holder.**update\_product\_btn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
  
 holder.**update\_btn**.setVisibility(View.***VISIBLE***);  
 holder.**update\_product\_btn**.setVisibility(View.***GONE***);  
 holder.**delete\_product\_btn**.setVisibility(View.***GONE***);  
 holder.**edt\_product\_qty**.setEnabled(**true**);  
 holder.**edt\_product\_total\_price**.setEnabled(**false**);  
  
 *//Update product* updateProductQuantity(holder);  
  
 }  
 });  
 holder.**delete\_product\_btn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 *//Delete Product* **mcallback**.onDeleteProduct(position);  
 }  
 });  
  
 holder.**update\_btn**.setOnClickListener(**new** View.OnClickListener() {  
 @RequiresApi(api = Build.VERSION\_CODES.***N***)  
 @Override  
 **public void** onClick(View view) {  
 holder.**update\_btn**.setVisibility(View.***GONE***);  
 holder.**update\_product\_btn**.setVisibility(View.***VISIBLE***);  
 holder.**delete\_product\_btn**.setVisibility(View.***VISIBLE***);  
 **billGettingModels**.get(position).setQuantity(holder.**edt\_product\_qty**.getText().toString());  
 **billGettingModels**.get(position).setTotalprice((**int**) Double.*parseDouble*(holder.**edt\_product\_total\_price**.getText().toString()));  
 notifyDataSetChanged();  
 }  
 });  
 }  
  
 **private void** updateProductQuantity(**final** MyViewHolder holder) {  
 holder.**edt\_product\_qty**.addTextChangedListener(**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**(holder.**edt\_product\_qty**.getText().toString().length() > 0)  
 {  
 String StringEditNum= holder.**edt\_product\_qty**.getText().toString();  
 String Stringrate=holder.**edt\_product\_price**.getText().toString();  
 Double EditNum = Double.*parseDouble*(StringEditNum);  
 Double EdtRate=Double.*parseDouble*(Stringrate);  
 holder.**edt\_product\_total\_price**.setText(**""** + EditNum\*EdtRate);  
 }  
 }  
 @Override  
 **public void** afterTextChanged(Editable editable) {  
  
 }  
 });  
 }  
  
 @Override  
 **public int** getItemCount() {  
 **return billGettingModels**.size();  
 }  
  
 **public class** MyViewHolder **extends** RecyclerView.ViewHolder{  
 EditText **edt\_product\_name**,**edt\_product\_qty**,**edt\_product\_price**,**edt\_product\_total\_price**;  
 Button **update\_product\_btn**,**delete\_product\_btn**,**update\_btn**;  
 **public** MyViewHolder(View view) {  
 **super**(view);  
 **edt\_product\_name**=(EditText) view.findViewById(R.id.***edt\_product\_name***);  
 **edt\_product\_qty**=(EditText)view.findViewById(R.id.***edt\_product\_qty***);  
 **edt\_product\_price**=(EditText)view.findViewById(R.id.***edt\_product\_price***);  
 **edt\_product\_total\_price**=(EditText)view.findViewById(R.id.***edt\_product\_total\_price***);  
 **update\_product\_btn**=(Button)view.findViewById(R.id.***update\_product\_btn***);  
 **delete\_product\_btn**=(Button)view.findViewById(R.id.***delete\_product\_btn***);  
 **update\_btn**=(Button)view.findViewById(R.id.***update\_btn***);  
 }  
 }  
}

**ProductInsertAdapter**

**package** com.example.rahuljoshi.tasksqlitedb.adapter;  
  
**import** android.os.Build;  
**import** android.support.annotation.NonNull;  
**import** android.support.annotation.RequiresApi;  
**import** android.support.v7.widget.RecyclerView;  
**import** android.text.Editable;  
**import** android.text.TextWatcher;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
  
**import** com.example.rahuljoshi.tasksqlitedb.R;  
**import** com.example.rahuljoshi.tasksqlitedb.callback.CallbackProduct;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_productmaster;  
  
**import** java.util.List;  
  
**public class** ProductInsertAdapter **extends** RecyclerView.Adapter<ProductInsertAdapter.MyViewHolder> {  
 List<Model\_productmaster> **addTempraryList**;  
 CallbackProduct **mCallbackProduct**;  
  
 **public** ProductInsertAdapter(List<Model\_productmaster> addTempraryList, CallbackProduct mCallbackProduct) {  
 **this**.**addTempraryList**=addTempraryList;  
 **this**.**mCallbackProduct**=mCallbackProduct;  
 }  
  
 @NonNull  
 @Override  
 **public** MyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, **int** viewType) {  
 View itemView = LayoutInflater.*from*(parent.getContext())  
 .inflate(R.layout.***row\_productdisplaydata***, parent, **false**);  
  
 **return new** MyViewHolder(itemView);  
 }  
  
 @Override  
 **public void** onBindViewHolder(@NonNull **final** MyViewHolder holder, **final int** position) {  
 holder.**edt\_product\_name**.setEnabled(**false**);  
 holder.**edt\_product\_qty**.setEnabled(**false**);  
 holder.**edt\_product\_price**.setEnabled(**false**);  
 holder.**edt\_product\_total\_price**.setEnabled(**false**);  
  
 holder.**edt\_product\_name**.setText(**addTempraryList**.get(position).getPRODUCT\_NAME());  
 holder.**edt\_product\_qty**.setText(**addTempraryList**.get(position).getQuantity());  
 holder.**edt\_product\_price**.setText(**""**+**addTempraryList**.get(position).getPRODUCT\_PRICE());  
 holder.**edt\_product\_total\_price**.setText(**""**+**addTempraryList**.get(position).getTotalprice());  
  
 holder.**update\_product\_btn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 holder.**update\_btn**.setVisibility(View.***VISIBLE***);  
 holder.**update\_product\_btn**.setVisibility(View.***GONE***);  
 holder.**delete\_product\_btn**.setVisibility(View.***GONE***);  
 holder.**edt\_product\_qty**.setEnabled(**true**);  
 holder.**edt\_product\_total\_price**.setEnabled(**false**);  
 *//Update product* updateProductQuantity(holder);  
  
 }  
 });  
 holder.**delete\_product\_btn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 **mCallbackProduct**.onDeleteTempararyProduct(position);  
 }  
 });  
  
 holder.**update\_btn**.setOnClickListener(**new** View.OnClickListener() {  
 @RequiresApi(api = Build.VERSION\_CODES.***N***)  
 @Override  
 **public void** onClick(View view) {  
 holder.**update\_btn**.setVisibility(View.***GONE***);  
 holder.**update\_product\_btn**.setVisibility(View.***VISIBLE***);  
 holder.**delete\_product\_btn**.setVisibility(View.***VISIBLE***);  
 **for**(**int** j=0;j<**addTempraryList**.size()-1;j++) {  
 **addTempraryList**.remove(j).getQuantity();  
 **addTempraryList**.remove(j).getTotalprice();  
 }  
 **mCallbackProduct**.onUpdateTempararyProduct(position,holder.**edt\_product\_qty**.getText().toString(), Double.*parseDouble*(holder.**edt\_product\_total\_price**.getText().toString()));  
 }  
 });  
 }  
  
 **private void** updateProductQuantity(**final** MyViewHolder holder) {  
 holder.**edt\_product\_qty**.addTextChangedListener(**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**(holder.**edt\_product\_qty**.getText().toString().length() > 0)  
 {  
 String StringEditNum= holder.**edt\_product\_qty**.getText().toString();  
 String Stringrate=holder.**edt\_product\_price**.getText().toString();  
 Double EditNum = Double.*parseDouble*(StringEditNum);  
 Double EdtRate=Double.*parseDouble*(Stringrate);  
 holder.**edt\_product\_total\_price**.setText(**""** + EditNum\*EdtRate);  
 }  
 }  
 @Override  
 **public void** afterTextChanged(Editable editable) {  
  
 }  
 });  
 }  
  
 @Override  
 **public int** getItemCount() {  
 **return addTempraryList**.size();  
 }  
  
 **public class** MyViewHolder **extends** RecyclerView.ViewHolder{  
 EditText **edt\_product\_name**,**edt\_product\_qty**,**edt\_product\_price**,**edt\_product\_total\_price**;  
 Button **update\_product\_btn**,**delete\_product\_btn**,**update\_btn**;  
 **public** MyViewHolder(View view) {  
 **super**(view);  
 **edt\_product\_name**=(EditText) view.findViewById(R.id.***edt\_product\_name***);  
 **edt\_product\_qty**=(EditText)view.findViewById(R.id.***edt\_product\_qty***);  
 **edt\_product\_price**=(EditText)view.findViewById(R.id.***edt\_product\_price***);  
 **edt\_product\_total\_price**=(EditText)view.findViewById(R.id.***edt\_product\_total\_price***);  
 **update\_product\_btn**=(Button)view.findViewById(R.id.***update\_product\_btn***);  
 **delete\_product\_btn**=(Button)view.findViewById(R.id.***delete\_product\_btn***);  
 **update\_btn**=(Button)view.findViewById(R.id.***update\_btn***);  
 }  
 }  
}

**Callback**

**CallbackBill**

**package** com.example.rahuljoshi.tasksqlitedb.callback;  
  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_billmaster;  
  
**public interface** CallbackBill {  
 **void** onDeleteBill(**int** position);  
 **void** onUpdateBill(Model\_billmaster billMasterModelList);  
}

**CallbackProduct**

**package** com.example.rahuljoshi.tasksqlitedb.callback;  
  
**public interface** CallbackProduct {  
 **void** onDeleteProduct(**int** position);  
 **void** onDeleteTempararyProduct(**int** position);  
 **void** onUpdateTempararyProduct(**int** position, String quantity, **double** TotalPrice);  
}

Helper

**DbHelper**

**package** com.example.rahuljoshi.tasksqlitedb.helper;  
  
**import** android.content.Context;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
  
**import** java.io.File;  
**import** java.io.FileOutputStream;  
**import** java.io.IOException;  
**import** java.io.InputStream;  
**import** java.io.OutputStream;  
  
*/\*\*  
 \** ***@author*** *Kcspl003  
 \*/***public class** DbHelper **extends** SQLiteOpenHelper {  
  
 *// The Android's default system path of your application database.* **private static** String *PACKAGENAME*;  
 **private static** String *DB\_PATH* = **"/data/data/"** + *PACKAGENAME* + **"/databases/"**;  
 **public static** String *DB\_NAME* = **"medicaldemo.db"**;  
  
 **private** SQLiteDatabase **myDataBase**;  
  
 **private final** Context **myContext**;  
  
 */\*\*  
 \* Constructor Takes and keeps a reference of the passed context in order to  
 \* access to the application assets and resources.  
 \*  
 \** ***@param context*** *\*/* **public** DbHelper(**final** Context context) {  
 **super**(context, *DB\_NAME*, **null**, 2);  
 *PACKAGENAME* = context.getPackageName();  
 *DB\_PATH* = **"/data/data/"** + *PACKAGENAME* + **"/databases/"**;  
 **this**.**myContext** = context;  
  
 }  
  
 */\*\*  
 \* Creates a empty database on the system and rewrites it with your own  
 \* database.  
 \*/* **public final void** createDataBase() **throws** IOException {  
  
 **final boolean** dbExist = checkDataBase();  
 SQLiteDatabase db\_Read = **null**;  
 **if** (dbExist) {  
 *// do nothing - database already exist* } **else** {  
 *// By calling this method and empty database will be created into  
 // the default system path  
 // of your application so we are gonna be able to overwrite that  
 // database with our database.  
 // By calling this method and empty database will be created into  
 // the default system path  
 // of your application so we are gonna be able to overwrite that  
 // database with our database.  
 // db\_Read = this.getReadableDatabase(DB\_Internal);* db\_Read = **this**.getReadableDatabase();  
 db\_Read.close();  
  
 copyDataBase();  
  
 }  
 }  
  
 */\*\*  
 \* Restore whole database without any data  
 \*  
 \** ***@throws*** *IOException  
 \*/* **public final void** RestoreDatabase() **throws** IOException {  
 SQLiteDatabase db\_Read = **this**.getReadableDatabase();  
 db\_Read.close();  
  
 copyDataBase();  
 *// Log.i(TAG, "Database Restored");* }  
  
 */\*\*  
 \* Check if the database already exist to avoid re-copying the file each  
 \* time you open the application.  
 \*  
 \** ***@return*** *true if it exists, false if it doesn't  
 \*/* **private boolean** checkDataBase() {  
 **final** File dbFile = **new** File(*DB\_PATH* + *DB\_NAME*);  
 **return** dbFile.exists();  
 }  
  
 */\*\*  
 \* Copies your database from your local assets-folder to the just created  
 \* empty database in the system folder, from where it can be accessed and  
 \* handled. This is done by transfering bytestream.  
 \*  
 \** ***@throws*** *IOException  
 \*/* **private void** copyDataBase() **throws** IOException {  
  
 *// Open your local db as the input stream* **final** InputStream myInput = **myContext**.getAssets().open(*DB\_NAME*);  
  
 *// Path to the just created empty db* **final** String outFileName = *DB\_PATH* + *DB\_NAME*;  
  
 *// Open the empty db as the output stream* **final** OutputStream myOutput = **new** FileOutputStream(outFileName);  
  
 *// transfer bytes from the inputfile to the outputfile* **final byte**[] buffer = **new byte**[1024];  
 **int** length;  
 **while** ((length = myInput.read(buffer)) > 0) {  
 myOutput.write(buffer, 0, length);  
 }  
  
 *// Close the streams* myOutput.flush();  
 myOutput.close();  
 myInput.close();  
  
 }  
  
 **public final** SQLiteDatabase openDataBase() {  
 *// Open the database* **final** String myPath = *DB\_PATH* + *DB\_NAME*;  
 **if** (**myDataBase** != **null** && **myDataBase**.isOpen()) {  
 **myDataBase**.close();  
 }  
 **return myDataBase** = SQLiteDatabase.*openDatabase*(myPath, **null**,  
 SQLiteDatabase.***OPEN\_READWRITE***);  
  
 }  
  
 **public final synchronized void** closeDatabase() {  
 **if** (**myDataBase** != **null**)  
 **myDataBase**.close();  
 **super**.close();  
 }  
  
 @Override  
 **public void** onCreate(**final** SQLiteDatabase arg0) {  
 }  
  
 @Override  
 **public void** onUpgrade(**final** SQLiteDatabase arg0, **final int** arg1,  
 **final int** arg2) {  
 }  
  
}

**Model**

**BillDetailModel**

**package** com.example.rahuljoshi.tasksqlitedb.model;  
  
**import** com.google.gson.annotations.SerializedName;  
  
**public class** Model\_billdetails {  
 @SerializedName(**"BILL\_DETAIL\_ID"**)  
 **public int BILL\_DETAIL\_ID**;  
 @SerializedName(**"PRODUCT\_MASTER\_ID"**)  
 **public int PRODUCT\_MASTER\_ID**;  
 @SerializedName(**"BILL\_MASTER\_ID"**)  
 **public int BILL\_MASTER\_ID**;  
 @SerializedName(**"QUANTITY"**)  
 **public int QUANTITY**;  
 @SerializedName(**"PRICE"**)  
 **public int PRICE**;  
  
 **public** Model\_billdetails() {  
 }  
  
 **public int** getBILL\_DETAIL\_ID() {  
 **return BILL\_DETAIL\_ID**;  
 }  
  
 **public void** setBILL\_DETAIL\_ID(**int** BILL\_DETAIL\_ID) {  
 **this**.**BILL\_DETAIL\_ID** = BILL\_DETAIL\_ID;  
 }  
  
 **public int** getPRODUCT\_MASTER\_ID() {  
 **return PRODUCT\_MASTER\_ID**;  
 }  
  
 **public void** setPRODUCT\_MASTER\_ID(**int** PRODUCT\_MASTER\_ID) {  
 **this**.**PRODUCT\_MASTER\_ID** = PRODUCT\_MASTER\_ID;  
 }  
  
 **public int** getBILL\_MASTER\_ID() {  
 **return BILL\_MASTER\_ID**;  
 }  
  
 **public void** setBILL\_MASTER\_ID(**int** BILL\_MASTER\_ID) {  
 **this**.**BILL\_MASTER\_ID** = BILL\_MASTER\_ID;  
 }  
  
 **public int** getQUANTITY() {  
 **return QUANTITY**;  
 }  
  
 **public void** setQUANTITY(**int** QUANTITY) {  
 **this**.**QUANTITY** = QUANTITY;  
 }  
  
 **public int** getPRICE() {  
 **return PRICE**;  
 }  
  
 **public void** setPRICE(**int** PRICE) {  
 **this**.**PRICE** = PRICE;  
 }  
}

**BillMasterModel**

**package** com.example.rahuljoshi.tasksqlitedb.model;  
  
**import** com.google.gson.annotations.SerializedName;  
  
**import** java.io.Serializable;  
  
**public class** Model\_billmaster **implements** Serializable{  
 @SerializedName(**"BILL\_ID"**)  
 **public int BILL\_ID**;  
 @SerializedName(**"BILL\_NO"**)  
 **public** String **BILL\_NO**;  
 @SerializedName(**"CUSTOMER\_NAME"**)  
 **public** String **CUSTOMER\_NAME**;  
 @SerializedName(**"ADDRESS"**)  
 **public** String **ADDRESS**;  
 @SerializedName(**"GENDER"**)  
 **public** String **GENDER**;  
 @SerializedName(**"TOTAL\_AMOUNT"**)  
 **public int TOTAL\_AMOUNT**;  
 @SerializedName(**"DATETIME"**)  
 **public** String **DATETIME**;  
  
 **public** Model\_billmaster() {  
 }  
  
 **public int** getBILL\_ID() {  
 **return BILL\_ID**;  
 }  
  
 **public void** setBILL\_ID(**int** BILL\_ID) {  
 **this**.**BILL\_ID** = BILL\_ID;  
 }  
  
 **public** String getBILL\_NO() {  
 **return BILL\_NO**;  
 }  
  
 **public void** setBILL\_NO(String BILL\_NO) {  
 **this**.**BILL\_NO** = BILL\_NO;  
 }  
  
 **public** String getCUSTOMER\_NAME() {  
 **return CUSTOMER\_NAME**;  
 }  
  
 **public void** setCUSTOMER\_NAME(String CUSTOMER\_NAME) {  
 **this**.**CUSTOMER\_NAME** = CUSTOMER\_NAME;  
 }  
  
 **public** String getADDRESS() {  
 **return ADDRESS**;  
 }  
  
 **public void** setADDRESS(String ADDRESS) {  
 **this**.**ADDRESS** = ADDRESS;  
 }  
  
 **public** String getGENDER() {  
 **return GENDER**;  
 }  
  
 **public void** setGENDER(String GENDER) {  
 **this**.**GENDER** = GENDER;  
 }  
  
 **public int** getTOTAL\_AMOUNT() {  
 **return TOTAL\_AMOUNT**;  
 }  
  
 **public void** setTOTAL\_AMOUNT(**int** TOTAL\_AMOUNT) {  
 **this**.**TOTAL\_AMOUNT** = TOTAL\_AMOUNT;  
 }  
  
 **public** String getDATETIME() {  
 **return DATETIME**;  
 }  
  
 **public void** setDATETIME(String DATETIME) {  
 **this**.**DATETIME** = DATETIME;  
 }  
}

**ProductMasterModel**

**package** com.example.rahuljoshi.tasksqlitedb.model;  
  
**import** com.google.gson.annotations.SerializedName;  
  
**public class** Model\_productmaster {  
 @SerializedName(**"PROCUCT\_ID"**)  
 **public int PROCUCT\_ID**;  
 @SerializedName(**"PRODUCT\_NAME"**)  
 **public** String **PRODUCT\_NAME**;  
 @SerializedName(**"PRODUCT\_PRICE"**)  
 **public int PRODUCT\_PRICE**;  
 @SerializedName(**"QUANTITY"**)  
 **private** String **quantity**;  
 @SerializedName(**"TOTAL\_PRICE"**)  
 **private int totalprice**;  
 @SerializedName(**"BILL\_ID"**)  
 **private int bill\_id**;  
 @SerializedName(**"BILL\_DETAIL\_ID"**)  
 **private int bill\_detail\_id**;  
 @SerializedName(**"BILL\_NO"**)  
 **private int billno**;  
 @SerializedName(**"CUSTOMER\_NAME"**)  
 **private** String **customername**;  
 @SerializedName(**"ADDRESS"**)  
 **private** String **address**;  
 @SerializedName(**"GENDER"**)  
 **private** String **gender**;  
  
 **public** Model\_productmaster() {  
 }  
  
 **public** Model\_productmaster(**int** PROCUCT\_ID, String PRODUCT\_NAME, **int** PRODUCT\_PRICE, String quantity, **int** totalprice, **int** bill\_id, **int** bill\_detail\_id, **int** billno, String customername, String address, String gender) {  
 **this**.**PROCUCT\_ID** = PROCUCT\_ID;  
 **this**.**PRODUCT\_NAME** = PRODUCT\_NAME;  
 **this**.**PRODUCT\_PRICE** = PRODUCT\_PRICE;  
 **this**.**quantity** = quantity;  
 **this**.**totalprice** = totalprice;  
 **this**.**bill\_id** = bill\_id;  
 **this**.**bill\_detail\_id** = bill\_detail\_id;  
 **this**.**billno** = billno;  
 **this**.**customername** = customername;  
 **this**.**address** = address;  
 **this**.**gender** = gender;  
 }  
  
 **public int** getPROCUCT\_ID() {  
 **return PROCUCT\_ID**;  
 }  
  
 **public void** setPROCUCT\_ID(**int** PROCUCT\_ID) {  
 **this**.**PROCUCT\_ID** = PROCUCT\_ID;  
 }  
  
 **public** String getPRODUCT\_NAME() {  
 **return PRODUCT\_NAME**;  
 }  
  
 **public void** setPRODUCT\_NAME(String PRODUCT\_NAME) {  
 **this**.**PRODUCT\_NAME** = PRODUCT\_NAME;  
 }  
  
 **public int** getPRODUCT\_PRICE() {  
 **return PRODUCT\_PRICE**;  
 }  
  
 **public void** setPRODUCT\_PRICE(**int** PRODUCT\_PRICE) {  
 **this**.**PRODUCT\_PRICE** = PRODUCT\_PRICE;  
 }  
  
 **public** String getQuantity() {  
 **return quantity**;  
 }  
  
 **public void** setQuantity(String quantity) {  
 **this**.**quantity** = quantity;  
 }  
  
 **public int** getTotalprice() {  
 **return totalprice**;  
 }  
  
 **public void** setTotalprice(**int** totalprice) {  
 **this**.**totalprice** = totalprice;  
 }  
  
 **public int** getBill\_id() {  
 **return bill\_id**;  
 }  
  
 **public void** setBill\_id(**int** bill\_id) {  
 **this**.**bill\_id** = bill\_id;  
 }  
  
 **public int** getBill\_detail\_id() {  
 **return bill\_detail\_id**;  
 }  
  
 **public void** setBill\_detail\_id(**int** bill\_detail\_id) {  
 **this**.**bill\_detail\_id** = bill\_detail\_id;  
 }  
  
 **public int** getBillno() {  
 **return billno**;  
 }  
  
 **public void** setBillno(**int** billno) {  
 **this**.**billno** = billno;  
 }  
  
 **public** String getCustomername() {  
 **return customername**;  
 }  
  
 **public void** setCustomername(String customername) {  
 **this**.**customername** = customername;  
 }  
  
 **public** String getAddress() {  
 **return address**;  
 }  
  
 **public void** setAddress(String address) {  
 **this**.**address** = address;  
 }  
  
 **public** String getGender() {  
 **return gender**;  
 }  
  
 **public void** setGender(String gender) {  
 **this**.**gender** = gender;  
 }  
  
  
 @Override  
 **public** String toString() {  
 **return PRODUCT\_NAME**;  
 }  
}

**Table**

**Tbl\_billdetails**

**package** com.example.rahuljoshi.tasksqlitedb.table;  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.sqlite.SQLiteDatabase;  
  
**import** com.example.rahuljoshi.tasksqlitedb.SingleTonApplicationClass;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_billdetails;  
  
**import** java.util.ArrayList;  
  
**public class** Tbl\_billdetails {  
  
 **public static final** String ***TABLE\_BILL\_DETAIL*** = **"billdetails"**;  
 **public static final** String ***BILL\_DETAIL\_ID*** = **"BILL\_DETAIL\_ID"**;  
 **public static final** String ***PRODUCT\_MASTER\_ID*** = **"PRODUCT\_MASTER\_ID"**;  
 **public static final** String ***BILL\_MASTER\_ID*** = **"BILL\_MASTER\_ID"**;  
 **public static final** String ***QUANTITY*** = **"QUANTITY"**;  
 **public static final** String ***PRICE*** = **"PRICE"**;  
 **public static** String *TAG* = **"Tbl\_billdetails"**;  
 SQLiteDatabase **sqldb**;  
 **long result**;  
  
 **public** Tbl\_billdetails(Context context) {  
  
 **sqldb** = ((SingleTonApplicationClass) context.getApplicationContext()).**sqLiteDatabase**;  
 }  
  
 *//Insert data in billdetails bable* **public boolean** onInsertDataBillDetail(ArrayList<Model\_billdetails> arrListModel){  
 **try** {  
 **sqldb**.beginTransaction();  
 **for** (Model\_billdetails model : arrListModel) {  
 ContentValues values = getContentValues(model);  
 **result** = **sqldb**.insert(***TABLE\_BILL\_DETAIL***, **null**, values);  
 }  
 **sqldb**.setTransactionSuccessful();  
 **sqldb**.endTransaction();  
 }  
 **catch**(Exception e) {  
 }  
 **finally** {  
 **if**(**result**==-1){  
 **return false**;  
 }**else**{  
 **return true**;  
 }  
 }  
 }*//End insert method* **public** ContentValues getContentValues(Model\_billdetails model){  
 ContentValues values = **new** ContentValues();  
 values.put(***PRODUCT\_MASTER\_ID***,model.getPRODUCT\_MASTER\_ID());  
 values.put(***BILL\_MASTER\_ID***,model.getBILL\_MASTER\_ID());  
 values.put(***QUANTITY***,model.getQUANTITY());  
 values.put(***PRICE***,model.getPRICE());  
 **return** values;  
 }  
  
 *//Update Data In BillMaster Table* **public boolean** onUpdateDataBillDetail(ArrayList<Model\_billdetails> arrListModel){  
 **try** {  
 **sqldb**.beginTransaction();  
 **for** (Model\_billdetails model : arrListModel) {  
 ContentValues values = getContentUpdateValue(model);  
 **result** = **sqldb**.update(***TABLE\_BILL\_DETAIL***, values, ***BILL\_DETAIL\_ID*** + **" =?"**, **new** String[]{String.*valueOf*(model.getBILL\_DETAIL\_ID())});  
 }  
 **sqldb**.setTransactionSuccessful();  
 **sqldb**.endTransaction();  
 }  
 **catch** (Exception e) {  
 }  
 **finally** {  
 **if** (**result** == -1) {  
 **return false**;  
 } **else** {  
 **return true**;  
 }  
 }  
 }  
  
 **public** ContentValues getContentUpdateValue(Model\_billdetails model){  
 ContentValues values = **new** ContentValues();  
 values.put(***BILL\_DETAIL\_ID***,model.getBILL\_DETAIL\_ID());  
 values.put(***PRODUCT\_MASTER\_ID***,model.getPRODUCT\_MASTER\_ID());  
 values.put(***BILL\_MASTER\_ID***,model.getBILL\_MASTER\_ID());  
 values.put(***QUANTITY***,model.getQUANTITY());  
 values.put(***PRICE***,model.getPRICE());  
 **return** values;  
 }  
}

**Tbl\_billmaster**

**package** com.example.rahuljoshi.tasksqlitedb.table;  
  
**import** java.util.ArrayList;  
**import** java.util.List;  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.util.Log;  
**import** android.widget.Toast;  
  
**import** com.example.rahuljoshi.tasksqlitedb.SingleTonApplicationClass;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_billmaster;  
  
**public class** Tbl\_billmaster {  
  
 **public static final** String ***TABLE\_BILL\_MASTER*** = **"billmaster"**;  
 **public static final** String ***BILL\_ID*** = **"BILL\_ID"**;  
 **public static final** String ***BILL\_NO*** = **"BILL\_NO"**;  
 **public static final** String ***CUSTOMER\_NAME*** = **"CUSTOMER\_NAME"**;  
 **public static final** String ***ADDRESS*** = **"ADDRESS"**;  
 **public static final** String ***GENDER*** = **"GENDER"**;  
 **public static final** String ***TOTAL\_AMOUNT*** = **"TOTAL\_AMOUNT"**;  
 **public static final** String ***DATETIME*** = **"DATETIME"**;  
 **public static** String *TAG* = **"Tbl\_billmaster"**;  
 SQLiteDatabase **sqldb**;  
 **long result**;  
 **public** Tbl\_billmaster(Context context) {  
  
 **sqldb** = ((SingleTonApplicationClass) context.getApplicationContext()).**sqLiteDatabase**;  
 }  
  
 *//Insert data into bill master table* **public boolean** onInsertDataBillMaster(ArrayList<Model\_billmaster> arrListModel){  
 **sqldb**.beginTransaction();  
  
 **for** (Model\_billmaster model : arrListModel)  
 {  
 ContentValues values=getContentValues(model);  
 **result**=**sqldb**.insert(***TABLE\_BILL\_MASTER***, **null**, values);  
 }  
 **sqldb**.setTransactionSuccessful();  
 **sqldb**.endTransaction();  
 **if**(**result**==-1){  
 **return false**;  
 }**else**{  
 **return true**;  
 }  
 }*//End insert method* **public** ContentValues getContentValues(Model\_billmaster model){  
 ContentValues values = **new** ContentValues();  
 values.put(***BILL\_NO***,model.getBILL\_NO());  
 values.put(***CUSTOMER\_NAME***,model.getCUSTOMER\_NAME());  
 values.put(***ADDRESS***,model.getADDRESS());  
 values.put(***GENDER***,model.getGENDER());  
 values.put(***TOTAL\_AMOUNT***,model.getTOTAL\_AMOUNT());  
 values.put(***DATETIME***,model.getDATETIME());  
 **return** values;  
 }  
  
 *//Get all data* **public** ArrayList<Model\_billmaster> onSelectAll() {  
 ArrayList<Model\_billmaster> arrModelList = **null**;  
 Cursor cursor = **null**;  
 String Query = **"Select \* from "** + ***TABLE\_BILL\_MASTER***;  
 Log.*i*(*TAG*, Query);  
 cursor = **sqldb**.rawQuery(Query, **null**);  
 **if** (cursor != **null** && cursor.moveToFirst()) {  
 arrModelList = **new** ArrayList<Model\_billmaster>();  
 **do** {  
 Model\_billmaster model = GetModel(cursor);  
 arrModelList.add(model);  
 } **while** (cursor.moveToNext());  
 cursor.close();  
 }*//end if(cursor!=null)* **return** arrModelList;  
 }  
  
 **public** Model\_billmaster GetModel(Cursor cursor) {  
 Model\_billmaster model = **new** Model\_billmaster();  
 model.setBILL\_ID(cursor.getInt(cursor.getColumnIndex(***BILL\_ID***)));  
 model.setBILL\_NO(cursor.getString(cursor.getColumnIndex(***BILL\_NO***)));  
 model.setCUSTOMER\_NAME(cursor.getString(cursor.getColumnIndex(***CUSTOMER\_NAME***)));  
 model.setADDRESS(cursor.getString(cursor.getColumnIndex(***ADDRESS***)));  
 model.setGENDER(cursor.getString(cursor.getColumnIndex(***GENDER***)));  
 model.setTOTAL\_AMOUNT(cursor.getInt(cursor.getColumnIndex(***TOTAL\_AMOUNT***)));  
 model.setDATETIME(cursor.getString(cursor.getColumnIndex(***DATETIME***)));  
 **return** model;  
 }  
  
 *//Get Last Record Bill ID From Bill Master Table* **public** ArrayList<Model\_billmaster> onReadLastRecordFromDatabase() {  
 ArrayList<Model\_billmaster> arrModelList = **null**;  
 Cursor cursor = **null**;  
 String Query = **"SELECT "**+ ***BILL\_ID*** +**" FROM "** + ***TABLE\_BILL\_MASTER*** +**" ORDER BY "**+ ***BILL\_ID*** +**" DESC LIMIT 1"**;  
 Log.*i*(*TAG*, Query);  
 cursor = **sqldb**.rawQuery(Query, **null**);  
 **if** (cursor != **null** && cursor.moveToFirst()) {  
 arrModelList = **new** ArrayList<Model\_billmaster>();  
 **do** {  
 Model\_billmaster model = GetModelLastRecord(cursor);  
 arrModelList.add(model);  
 } **while** (cursor.moveToNext());  
 cursor.close();  
 }*//end if(cursor!=null)* **return** arrModelList;  
 }  
  
 **public** Model\_billmaster GetModelLastRecord(Cursor cursor) {  
 Model\_billmaster model = **new** Model\_billmaster();  
 model.setBILL\_ID(cursor.getInt(cursor.getColumnIndex(BILL\_ID)));  
 **return** model;  
 }  
  
 *//Update Data In BillMaster Table* **public boolean** onUpdateDataBillMaster(ArrayList<Model\_billmaster> arrListModel){  
 **try** {  
 sqldb.beginTransaction();  
  
 **for** (Model\_billmaster model : arrListModel) {  
 ContentValues values = getContentUpdateValue(model);  
 result = sqldb.update(TABLE\_BILL\_MASTER, values, BILL\_ID + **" =?"**, **new** String[]{String.valueOf(model.getBILL\_ID())});  
 }  
 sqldb.setTransactionSuccessful();  
 sqldb.endTransaction();  
 }  
 **catch**(Exception e) {  
 }  
 **finally** {  
 **if** (result == -1) {  
 **return false**;  
 } **else** {  
 **return true**;  
 }  
 }  
 }  
  
 **public** ContentValues getContentUpdateValue(Model\_billmaster model){  
 ContentValues values = **new** ContentValues();  
 values.put(BILL\_ID,model.getBILL\_ID());  
 values.put(BILL\_NO,model.getBILL\_NO());  
 values.put(CUSTOMER\_NAME,model.getCUSTOMER\_NAME());  
 values.put(ADDRESS,model.getADDRESS());  
 values.put(GENDER,model.getGENDER());  
 values.put(TOTAL\_AMOUNT,model.getTOTAL\_AMOUNT());  
 values.put(DATETIME,model.getDATETIME());  
 **return** values;  
 }  
  
 *//Delete the Data From Bill Master Table* **public** Boolean onDeleteBill(String id) {  
 sqldb.delete(TABLE\_BILL\_MASTER,BILL\_ID+**" =?"**,**new** String[]{String.valueOf(id.toString())});  
 **return true**;  
 }  
}

**Tbl\_productmaster**

**package** com.example.rahuljoshi.tasksqlitedb.table;  
  
**import** java.util.ArrayList;  
**import** java.util.List;  
  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.util.Log;  
  
**import** com.example.rahuljoshi.tasksqlitedb.SingleTonApplicationClass;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_productmaster;  
  
**public class** Tbl\_productmaster{  
  
 **public static final** String ***TABLE\_PRODUCT\_MASTER*** = **"productmaster"**;  
 **public static final** String ***PROCUCT\_ID*** = **"PROCUCT\_ID"**;  
 **public static final** String ***PRODUCT\_NAME*** = **"PRODUCT\_NAME"**;  
 **public static final** String ***PRODUCT\_PRICE*** = **"PRODUCT\_PRICE"**;  
 **public static** String *TAG* = **"Tbl\_productmaster"**;  
 SQLiteDatabase **sqldb**;  
 **public** Tbl\_productmaster(Context context) {  
 **sqldb** = ((SingleTonApplicationClass) context.getApplicationContext()).**sqLiteDatabase**;  
 }  
  
 *//insert data into product table* **public void** onInsertDataProductMaster() {  
 **try** {  
 **sqldb**.execSQL(**"INSERT INTO "** + ***TABLE\_PRODUCT\_MASTER*** + **"(PRODUCT\_NAME, PRODUCT\_PRICE) VALUES('Medicine\_One','100')"**);  
 **sqldb**.execSQL(**"INSERT INTO "** + ***TABLE\_PRODUCT\_MASTER*** + **"(PRODUCT\_NAME, PRODUCT\_PRICE) VALUES('Medicine\_Two','200')"**);  
 **sqldb**.execSQL(**"INSERT INTO "** + ***TABLE\_PRODUCT\_MASTER*** + **"(PRODUCT\_NAME, PRODUCT\_PRICE) VALUES('Medicine\_Three','300')"**);  
 **sqldb**.execSQL(**"INSERT INTO "** + ***TABLE\_PRODUCT\_MASTER*** + **"(PRODUCT\_NAME, PRODUCT\_PRICE) VALUES('Medicine\_Four','400')"**);  
 **sqldb**.close();  
 } **catch** (Exception e) {  
 }  
 }  
  
 *//Get all product* **public** ArrayList<Model\_productmaster> onSelectAll() {  
 ArrayList<Model\_productmaster> arrModelList = **null**;  
 Cursor cursor = **null**;  
 String Query = **"Select \* from "** + ***TABLE\_PRODUCT\_MASTER***;  
 Log.*i*(*TAG*, Query);  
 cursor = **sqldb**.rawQuery(Query, **null**);  
 **if** (cursor != **null** && cursor.moveToFirst()) {  
 arrModelList = **new** ArrayList<Model\_productmaster>();  
 **do** {  
 Model\_productmaster model = GetModel(cursor);  
 arrModelList.add(model);  
 } **while** (cursor.moveToNext());  
 cursor.close();  
 }*//end if(cursor!=null)* **return** arrModelList;  
 }  
  
 **public** Model\_productmaster GetModel(Cursor cursor) {  
 Model\_productmaster model = **new** Model\_productmaster();  
 model.setPROCUCT\_ID(cursor.getInt(cursor.getColumnIndex(***PROCUCT\_ID***)));  
 model.setPRODUCT\_NAME(cursor.getString(cursor.getColumnIndex(***PRODUCT\_NAME***)));  
 model.setPRODUCT\_PRICE(cursor.getInt(cursor.getColumnIndex(***PRODUCT\_PRICE***)));  
 model.setQuantity(**null**);  
 model.setTotalprice(0);  
 model.setBill\_id(0);  
 model.setBill\_detail\_id(0);  
 model.setBillno(0);  
 model.setCustomername(**null**);  
 model.setAddress(**null**);  
 model.setGender(**null**);  
 **return** model;  
 }  
  
 *//Get All Product Based on Bill Id with join* **public** ArrayList<Model\_productmaster> onGetAllProductWithJoinTableWithBillId(String id) {  
 ArrayList<Model\_productmaster> arrModelList = **null**;  
 Cursor cursor = **null**;  
 String selectQuery = **"SELECT BD."**+Tbl\_billdetails.***BILL\_DETAIL\_ID***+**",P."**+***PRODUCT\_NAME***+**",BD."**+Tbl\_billdetails.***QUANTITY***+**",P."**+***PRODUCT\_PRICE***+**",BM."**+ Tbl\_billmaster.***TOTAL\_AMOUNT***+**",BM."**+Tbl\_billmaster.BILL\_NO+**",BM."** +Tbl\_billmaster.CUSTOMER\_NAME+**",BM."**+Tbl\_billmaster.ADDRESS+**",BM."**+Tbl\_billmaster.GENDER+**",P."**+PROCUCT\_ID+**",BM."**+Tbl\_billmaster.BILL\_ID+**" FROM "**+Tbl\_billdetails.TABLE\_BILL\_DETAIL+**" BD "** +  
 **"LEFT JOIN "**+Tbl\_billmaster.TABLE\_BILL\_MASTER+**" BM ON BD."**+Tbl\_billdetails.BILL\_MASTER\_ID+**"=BM."**+Tbl\_billmaster.BILL\_ID+**" LEFT JOIN "**+TABLE\_PRODUCT\_MASTER+**" P "** +  
 **"ON P."**+PROCUCT\_ID+**"=BD."**+Tbl\_billdetails.PRODUCT\_MASTER\_ID+**" WHERE BD."**+Tbl\_billdetails.BILL\_MASTER\_ID+**" = "**+id+**""**;  
 Log.i(TAG, selectQuery);  
 cursor = sqldb.rawQuery(selectQuery, **null**);  
 **if** (cursor != **null** && cursor.moveToFirst()) {  
 arrModelList = **new** ArrayList<Model\_productmaster>();  
 **do** {  
 Model\_productmaster model = GetModelWithJoin(cursor);  
 arrModelList.add(model);  
 } **while** (cursor.moveToNext());  
 cursor.close();  
 }*//end if(cursor!=null)* **return** arrModelList;  
 }  
  
 **public** Model\_productmaster GetModelWithJoin(Cursor cursor) {  
 Model\_productmaster model = **new** Model\_productmaster();  
 model.setPROCUCT\_ID(cursor.getInt(cursor.getColumnIndex(PROCUCT\_ID)));  
 model.setPRODUCT\_NAME(cursor.getString(cursor.getColumnIndex(PRODUCT\_NAME)));  
 model.setPRODUCT\_PRICE(cursor.getInt(cursor.getColumnIndex(PRODUCT\_PRICE)));  
 model.setQuantity(cursor.getString(cursor.getColumnIndex(Tbl\_billdetails.QUANTITY)));  
 model.setTotalprice(cursor.getInt(cursor.getColumnIndex(Tbl\_billmaster.TOTAL\_AMOUNT)));  
 model.setBill\_id(cursor.getInt(cursor.getColumnIndex(Tbl\_billmaster.BILL\_ID)));  
 model.setBill\_detail\_id(cursor.getInt(cursor.getColumnIndex(Tbl\_billdetails.BILL\_DETAIL\_ID)));  
 model.setBillno(cursor.getInt(cursor.getColumnIndex(Tbl\_billmaster.BILL\_NO)));  
 model.setCustomername(cursor.getString(cursor.getColumnIndex(Tbl\_billmaster.CUSTOMER\_NAME)));  
 model.setAddress(cursor.getString(cursor.getColumnIndex(Tbl\_billmaster.ADDRESS)));  
 model.setGender(cursor.getString(cursor.getColumnIndex(Tbl\_billmaster.GENDER)));  
 **return** model;  
 }  
  
 *//delete product* **public** Boolean onDeleteProduct(String id) {  
 sqldb.delete(Tbl\_billdetails.TABLE\_BILL\_DETAIL,Tbl\_billdetails.BILL\_DETAIL\_ID+**" =?"**,**new** String[]{String.valueOf(id.toString())});  
 **return true**;  
 }  
}

**SingleTonApplicationClass**

**package** com.example.rahuljoshi.tasksqlitedb;  
  
**import** android.app.Application;  
**import** android.database.sqlite.SQLiteDatabase;  
  
**import** com.example.rahuljoshi.tasksqlitedb.helper.DbHelper;  
**import** com.example.rahuljoshi.tasksqlitedb.model.Model\_productmaster;  
**import** com.example.rahuljoshi.tasksqlitedb.table.Tbl\_productmaster;  
  
**import** java.io.IOException;  
**import** java.util.ArrayList;  
  
**public class** SingleTonApplicationClass **extends** Application {  
 **public** SQLiteDatabase **sqLiteDatabase**;  
  
  
 @Override  
 **public void** onCreate() {  
 **super**.onCreate();  
 DbHelper dbHelper = **new** DbHelper(**this**);  
 **try** {  
 dbHelper.createDataBase();  
  
 } **catch** (IOException e1) {  
 *//* ***TODO Auto-generated catch block*** e1.printStackTrace();  
 }  
 **sqLiteDatabase** = dbHelper.openDataBase();  
  
 }  
}

**Layout File**

**activity\_billlisting**

*<?***xml version="1.0" encoding="utf-8"***?>*<**layout**>  
 <**data**>  
 <**variable  
 name="billmaster"  
 type="com.example.rahuljoshi.tasksqlitedb.model.Model\_billmaster"**/>  
 </**data**>  
 <**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"  
 android:orientation="vertical"  
 tools:context=".activity.BillListingActivity"**>  
 <**android.support.v7.widget.RecyclerView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/recyclerview\_view\_bill"  
 tools:listitem="@layout/row\_displaydata"  
 android:dividerHeight="10dp"  
 android:layout\_margin="10dp"  
 android:scrollbars="none"  
 android:divider="@android:color/transparent"**/>  
 <**TextView  
 android:id="@+id/txt\_data\_not\_found"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/datanotfound"  
 android:layout\_centerInParent="true"  
 android:layout\_gravity="center"  
 android:visibility="gone"**/>  
 </**RelativeLayout**>  
</**layout**>

**activity\_insertdata**

*<?***xml version="1.0" encoding="utf-8"***?>*<**layout**>  
 <**ScrollView android:layout\_height="match\_parent"  
 android:layout\_width="match\_parent"  
 xmlns:android="http://schemas.android.com/apk/res/android"**>  
 <**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"  
 android:orientation="vertical"**>  
 <**TextView  
 android:id="@+id/txt\_value\_update"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:layout\_marginTop="20dp"  
 android:visibility="gone"  
 android:text="@string/updatechange"**/>  
  
 <**android.support.design.widget.TextInputLayout  
 android:id="@+id/text\_input\_bill\_no"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginRight="10dp"  
 app:hintTextAppearance="@style/CustomTextAppearance"**>  
 <**EditText  
 android:id="@+id/billno\_edt"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="@string/billno"  
 android:inputType="text"**/>  
 </**android.support.design.widget.TextInputLayout**>  
 <**android.support.design.widget.TextInputLayout  
 android:id="@+id/text\_input\_name"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginRight="10dp"  
 app:hintTextAppearance="@style/CustomTextAppearance"**>  
 <**EditText  
 android:id="@+id/name\_edt"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="text"  
 android:hint="@string/name"**/>  
 </**android.support.design.widget.TextInputLayout**>  
 <**android.support.design.widget.TextInputLayout  
 android:id="@+id/text\_input\_address"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginRight="10dp"  
 app:hintTextAppearance="@style/CustomTextAppearance"**>  
 <**EditText  
 android:id="@+id/add\_edt"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="text"  
 android:hint="@string/address"**/>  
 </**android.support.design.widget.TextInputLayout**>  
 <**RadioGroup  
 android:id="@+id/radio\_group\_male\_female"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="5dp"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginRight="10dp"  
 android:weightSum="2"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.5"  
 android:text="@string/gender"  
 android:gravity="center\_vertical"**/>  
 <**RadioButton  
 android:id="@+id/radio\_button\_male"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.5"  
 android:text="@string/male"**/>  
 <**RadioButton  
 android:id="@+id/radio\_button\_female"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.5"  
 android:text="@string/female"**/>  
 </**RadioGroup**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginRight="10dp"  
 android:orientation="horizontal"**>  
 <**LinearLayout  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:orientation="vertical"**>  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="18dp"  
 android:hint="@string/product"**/>  
 <**Spinner  
 android:id="@+id/product\_spinner"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 style="@style/Base.Widget.AppCompat.Spinner.Underlined"**/>  
 </**LinearLayout**>  
 <**android.support.design.widget.TextInputLayout  
 android:id="@+id/text\_input\_rate"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 app:hintTextAppearance="@style/CustomTextAppearance"**>  
 <**EditText  
 android:id="@+id/rate\_edt"  
 android:layout\_width="match\_parent"  
 android:layout\_marginLeft="10dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Rate"**/>  
 </**android.support.design.widget.TextInputLayout**>  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginRight="10dp"  
 android:orientation="horizontal"**>  
 <**android.support.design.widget.TextInputLayout  
 android:id="@+id/text\_input\_quantity"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 app:hintTextAppearance="@style/CustomTextAppearance"**>  
 <**EditText  
 android:id="@+id/edt\_quantity"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="number"  
 android:text="1"  
 android:hint="Quantity"**/>  
 </**android.support.design.widget.TextInputLayout**>  
 <**android.support.design.widget.TextInputLayout  
 android:id="@+id/text\_input\_total\_price"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 app:hintTextAppearance="@style/CustomTextAppearance"**>  
 <**EditText  
 android:id="@+id/total\_price\_edt"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="10dp"  
 android:hint="Total Price"**/>  
 </**android.support.design.widget.TextInputLayout**>  
 </**LinearLayout**>  
 <**android.support.v7.widget.AppCompatButton  
 android:id="@+id/add\_product\_btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/addproduct"  
 android:textAllCaps="false"  
 android:padding="20dp"  
 android:layout\_gravity="center"**/>  
  
 <**android.support.v7.widget.RecyclerView  
 android:id="@+id/recylcer\_show\_product"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginRight="10dp"  
 android:layout\_marginBottom="20dp"  
 android:scrollbars="none"  
 android:divider="@android:color/transparent"  
 android:dividerHeight="20dp"  
 android:nestedScrollingEnabled="true"  
 tools:listitem="@layout/row\_productdisplaydata"  
 android:layout\_marginTop="10dp"**/>  
 </**LinearLayout**>  
 </**ScrollView**>  
</**layout**>

**row\_displaydata**

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.v7.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 app:cardCornerRadius="20dp"  
 android:layout\_margin="10dp"**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:padding="10dp"**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:weightSum="2"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.5"  
 android:text="@string/name"**/>  
 <**TextView  
 android:id="@+id/txt\_name"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1.5"  
 android:text=""**/>  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:weightSum="2"  
 android:layout\_marginTop="10dp"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.5"  
 android:text="@string/billno"**/>  
 <**TextView  
 android:id="@+id/txt\_billno"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1.5"  
 android:text=""**/>  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:weightSum="2"  
 android:layout\_marginTop="10dp"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.5"  
 android:text="@string/totalprice"**/>  
 <**TextView  
 android:id="@+id/txt\_price"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1.5"  
 android:text=""**/>  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:weightSum="2"  
 android:layout\_marginTop="10dp"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.5"  
 android:text="@string/datetime"**/>  
 <**TextView  
 android:id="@+id/txt\_date\_time"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1.5"  
 android:text=""**/>  
 </**LinearLayout**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:weightSum="2"  
 android:layout\_marginTop="10dp"  
 android:orientation="horizontal"**>  
 <**Button  
 android:id="@+id/update\_btn"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:text="@string/update"**/>  
 <**Button  
 android:layout\_marginLeft="20dp"  
 android:id="@+id/delete\_btn"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:text="@string/delete"**/>  
 </**LinearLayout**>  
  
 </**LinearLayout**>  
</**android.support.v7.widget.CardView**>

**row\_productdisplaydata**

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.v7.widget.CardView android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 android:orientation="vertical"  
 app:cardCornerRadius="20dp"  
 app:contentPadding="10dp"  
 app:cardUseCompatPadding="true"  
 xmlns:android="http://schemas.android.com/apk/res/android"**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:weightSum="2"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.8"  
 android:text="@string/product"  
 android:gravity="center"**/>  
 <**EditText  
 android:id="@+id/edt\_product\_name"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1.2"  
 android:text=""**/>  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:weightSum="2"  
 android:layout\_marginTop="10dp"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.8"  
 android:text="@string/quantity"  
 android:gravity="center"**/>  
 <**EditText  
 android:id="@+id/edt\_product\_qty"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1.2"  
 android:text="1"**/>  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:weightSum="2"  
 android:layout\_marginTop="10dp"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.8"  
 android:text="@string/rate"  
 android:gravity="center"**/>  
 <**EditText  
 android:id="@+id/edt\_product\_price"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1.2"  
 android:text=""**/>  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:weightSum="2"  
 android:layout\_marginTop="10dp"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="0.8"  
 android:text="@string/totalprice"  
 android:gravity="center"**/>  
 <**EditText  
 android:id="@+id/edt\_product\_total\_price"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1.2"  
 android:text=""**/>  
 </**LinearLayout**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:weightSum="2"  
 android:layout\_marginTop="10dp"  
 android:orientation="horizontal"**>  
 <**Button  
 android:id="@+id/update\_product\_btn"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:text="@string/update"**/>  
 <**Button  
 android:id="@+id/delete\_product\_btn"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:layout\_gravity="center"  
 android:text="@string/delete"**/>  
 </**LinearLayout**>  
 <**Button  
 android:id="@+id/update\_btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/submit"  
 android:layout\_gravity="center"  
 android:paddingLeft="40dp"  
 android:paddingRight="40dp"  
 android:visibility="gone"**/>  
 </**LinearLayout**>  
</**android.support.v7.widget.CardView**>

**Menu**

**add\_menu**

*<?***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/add\_menu"  
 android:title="@string/addmenu"  
 app:showAsAction="always"  
 android:icon="@drawable/ic\_add\_black\_24dp"**/>  
</**menu**>

**save\_menu**

*<?***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/save\_menu"  
 android:title="@string/savemenu"  
 app:showAsAction="always"**/>  
</**menu**>

**update\_menu**

*<?***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/update\_menu"  
 android:title="@string/update"  
 app:showAsAction="always"**/>  
</**menu**>

**Values**

**strings**

<**resources**>  
 <**string name="app\_name"**>TaskSqliteDB</**string**>  
  
 *<!--string in xml file-->* <**string name="datanotfound"**>Data Not Found</**string**>  
 <**string name="updatechange"**>Only change the address we can not change other values</**string**>  
 <**string name="billno"**>Bill No</**string**>  
 <**string name="name"**>Name</**string**>  
 <**string name="address"**>Address</**string**>  
 <**string name="gender"**>Gender</**string**>  
 <**string name="male"**>Male</**string**>  
 <**string name="female"**>Female</**string**>  
 <**string name="product"**>Product</**string**>  
 <**string name="rate"**>Rate</**string**>  
 <**string name="quantity"**>Quantity</**string**>  
 <**string name="totalprice"**>Total Price</**string**>  
 <**string name="addproduct"**>Add Product</**string**>  
 <**string name="update"**>Update</**string**>  
 <**string name="delete"**>Delete</**string**>  
 <**string name="submit"**>Sumbit</**string**>  
 <**string name="datetime"**>Date Time</**string**>  
 <**string name="selectgender"**>Please Select Gender</**string**>  
 <**string name="addproductfirst"**>Please Add Product First</**string**>  
 <**string name="enterbill"**>Enter the bill no</**string**>  
 <**string name="enterupdatedaddress"**>Enter the updated address</**string**>  
  
 *<!--string in menu file-->* <**string name="addmenu"**>Add Menu</**string**>  
 <**string name="savemenu"**>Save</**string**>  
  
 *<!--string in activity file-->* <**string name="datainsert"**>Data Inserted Successfully</**string**>  
 <**string name="dataaddfailed"**>Data Insertion Failed</**string**>  
 <**string name="dataupdated"**>Data Updated Successfully</**string**>  
 <**string name="dataupdatedfailed"**>Data Updated Failed</**string**>  
 <**string name="datadelete"**>Data Deleted Successfully</**string**>  
 <**string name="datanotdelete"**>Data Not Deleted Successfully</**string**>  
 <**string name="productadd"**>Product Add Successfully</**string**>  
 <**string name="productaddfailed"**>Product Insertion Failed</**string**>  
 <**string name="productdelete"**>Product Delete Successfully</**string**>  
 <**string name="msg\_enter"**>Enter the %s</**string**>  
  
 <**string name="rstotalvalue"**>Rs %1$s/-</**string**>  
 <**string name="randomvalue"**>G%1$s</**string**>  
</**resources**>