**build.gradle (Module)**  *(add the following)*

implementation **'com.android.support:design:26.1.0'**implementation **'com.android.support:support-v4:26.1.0'**implementation **'com.android.support:support-annotations:27.1.1'**

**activity\_main.xml**

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.v4.widget.DrawerLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 android:id="@+id/drawer\_layout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:fitsSystemWindows="true"**>  
  
 <**FrameLayout android:id="@+id/content\_frame"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"** >  
  
 <**TextView android:id="@+id/textView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="40dp"  
 android:text="Swipe left to view the navigation bar"  
 android:textSize="18sp"** />  
 </**FrameLayout**>  
  
 <**android.support.design.widget.NavigationView  
 android:id="@+id/nav\_view"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="match\_parent"  
 android:layout\_gravity="start"  
 android:fitsSystemWindows="true"  
 app:menu="@menu/my\_menu"** />  
  
</**android.support.v4.widget.DrawerLayout**>

**MainActivity.xml**

**package** com.example.paras.q3;  
  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.provider.ContactsContract;  
**import** android.support.design.widget.NavigationView;  
**import** android.support.v4.widget.DrawerLayout;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.MenuItem;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 **private** DrawerLayout **mDrawerLayout**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **mDrawerLayout** = findViewById(R.id.***drawer\_layout***);  
 NavigationView navigationView = findViewById(R.id.***nav\_view***);  
 navigationView.setNavigationItemSelectedListener(**new** NavigationView.OnNavigationItemSelectedListener() {  
 @Override  
 **public boolean** onNavigationItemSelected(MenuItem menuItem) {  
 menuItem.setChecked(**true**);  
 **if** (menuItem.getItemId() == R.id.***contacts***)  
 startActivity(**new** Intent(Intent.***ACTION\_DEFAULT***, ContactsContract.Contacts.***CONTENT\_URI***));  
 **else if** (menuItem.getItemId() == R.id.***browser***) {  
 String url = **"http://www.google.com"**;  
 Intent google = **new** Intent(Intent.***ACTION\_VIEW***);  
 google.setData(Uri.*parse*(url));  
 startActivity(google);  
 }  
 **else if** (menuItem.getItemId() == R.id.***search***)  
 startActivity(**new** Intent(getApplicationContext(), SearchViewHandler.**class**));  
 **else if** (menuItem.getItemId() == R.id.***map***)  
 startActivity(**new** Intent(Intent.***ACTION\_VIEW***, Uri.*parse*(**"geo:0,0?z=4&q=current+location"**)));  
 **return true**;  
 }  
 });  
 }  
}

**AndroidManifest.xml** (*Add activity)*

<**activity android:name=".SearchViewHandler"**/>

**SearchViewHandler.java**

**package** com.example.paras.q3;  
  
**import** android.os.Bundle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.ListView;  
**import** android.widget.SearchView;  
**import** android.widget.Toast;  
**import** java.util.ArrayList;  
  
**public class** SearchViewHandler **extends** AppCompatActivity **implements** SearchView.OnQueryTextListener {  
 SearchView **searchView**;  
 ListView **listView**;  
 ArrayList<String> **list**;  
 ArrayAdapter<String> **adapter**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***searchview\_activity***);

**listView** = (ListView) findViewById(R.id.***lv1***);  
  
 **list** = **new** ArrayList<>();  
 **list**.add(**"apple"**);  
 **list**.add(**"banana"**);  
 **list**.add(**"pineapple"**);  
 **list**.add(**"orange"**);  
 **list**.add(**"lychee"**);  
 **list**.add(**"guava"**);  
 **list**.add(**"peach"**);  
 **list**.add(**"melon"**);  
 **list**.add(**"watermelon"**);  
 **list**.add(**"papaya"**);  
  
 **adapter** = **new** ArrayAdapter<String>(**this**, android.R.layout.***simple\_list\_item\_1***, **list**);  
 **listView**.setAdapter(**adapter**);  
  
 **searchView** = (SearchView) findViewById(R.id.***searchView***);  
 **searchView**.setOnQueryTextListener(**this**);  
 }  
  
 @Override  
 **public boolean** onQueryTextSubmit(String query) {  
 **if**(!**list**.contains(query)) {  
 Toast.*makeText*(SearchViewHandler.**this**, **"No Match found"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 **return false**;  
 }  
 @Override  
 **public boolean** onQueryTextChange(String newText) {  
 **adapter**.getFilter().filter(newText);  
 **return false**;  
 }  
}

**my\_menu.xml**

<**menu xmlns:android="http://schemas.android.com/apk/res/android"**>  
 <**item  
 android:id="@+id/contacts"  
 android:title="Contacts"** />  
 <**item  
 android:id="@+id/browser"  
 android:title="Browser"** />  
 <**item  
 android:id="@+id/map"  
 android:title="Map"** />  
 <**item  
 android:id="@+id/search"  
 android:title="Search"** />  
</**menu**>

**searchview\_activity.xml**

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:orientation="vertical"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**SearchView android:id="@+id/searchView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**/>  
  
 <**ListView android:id="@+id/lv1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="0dp"  
 android:layout\_weight="1"**>  
 </**ListView**>  
  
</**LinearLayout**>