Manisha Vyas

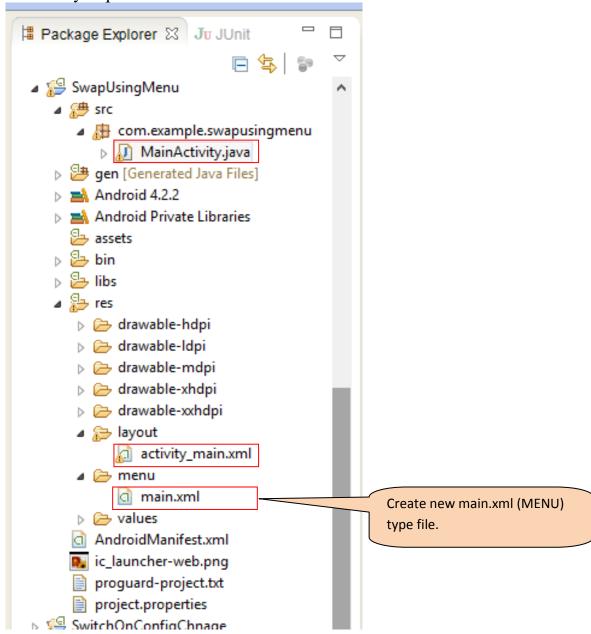
Question.

Activity Menu

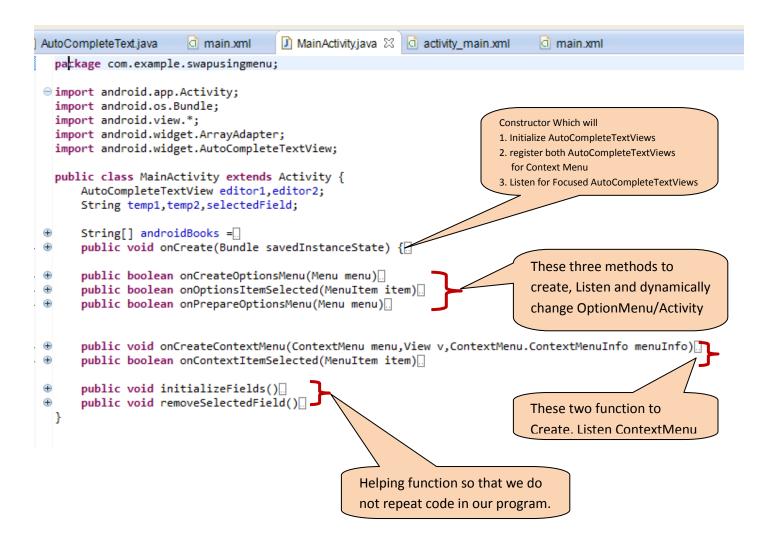
- Adding the menu item "Swap Item". Pressing this menu item will swap the text of the two AutoCompleteTextViews.
- Adding the menu item "Remove Item". Pressing this menu item will remove the text in the focused AutoCompleteTextView.
- This exercise allows to swap text by pressing the Swap menu item.
 When the user clicks the "Swap Item" menu item, the text in the two AutoCompleteTextViews are swapped.
- If a focused AutoCompleteTextView is empty, the "Remove Item" menu item should be disabled.

Context Menu

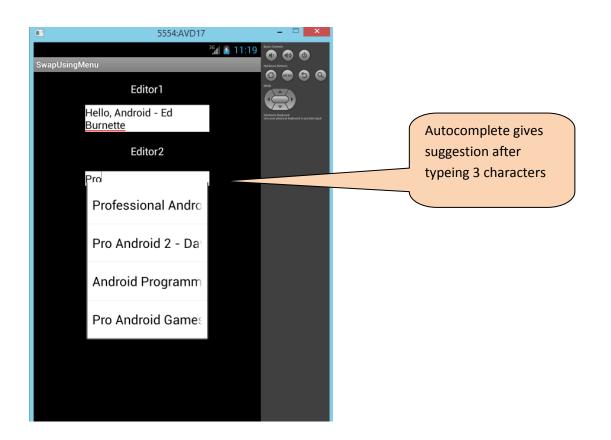
• When the user uses D-Pad Up or D-Pad Down keys to move the focus to one of the two AutoCompleteTextView fileds, and then hold D-Pad Center, a context menu pops up. The user presses the menu and the focused AutoCompleteTextView field is removed. We mainly required to work on these three files

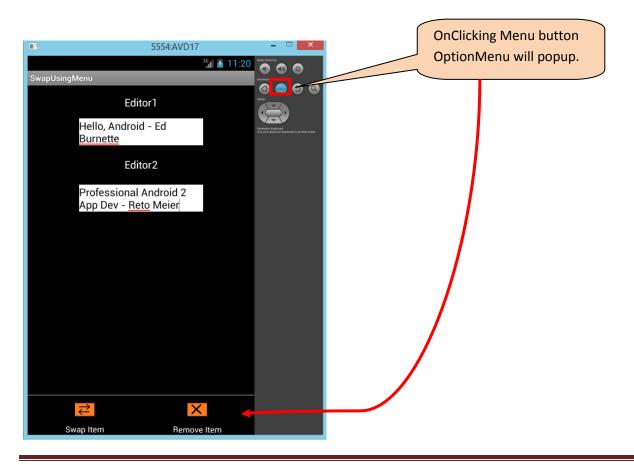


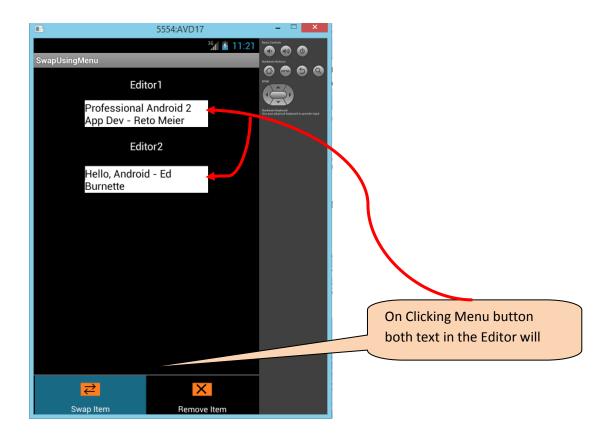
In MainActivity.java We will implement Following methods...

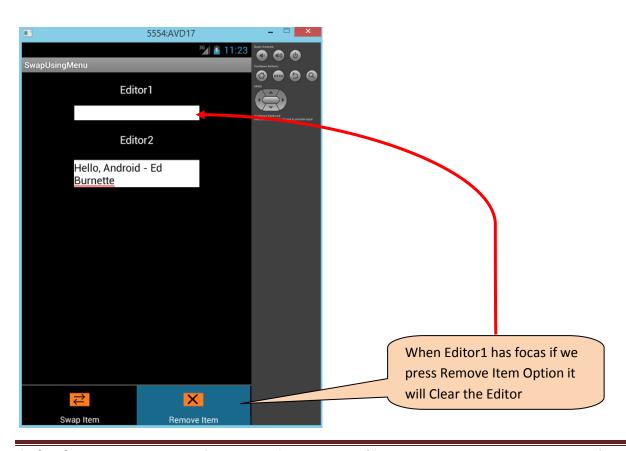


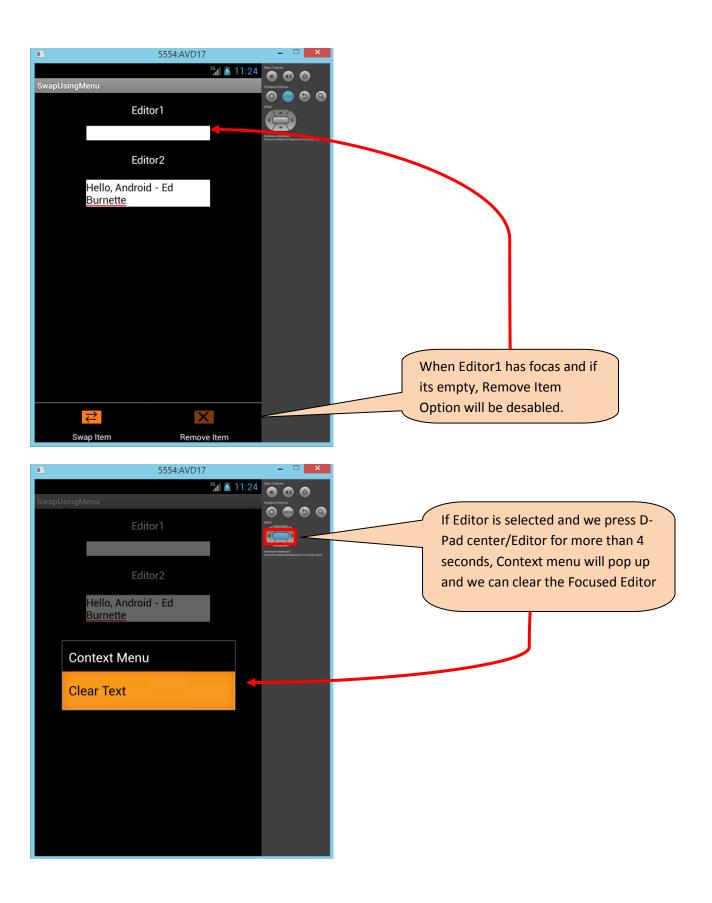
Complete code is given below





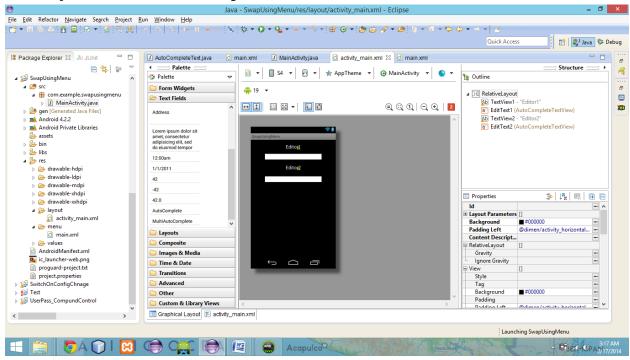






Step: 1 Modify activity_main.xml

activity_main.xml --> Graphical View



Activity_main.xml

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout_height="match_parent"
    android:background="#000000"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity horizontal margin"
    android:paddingRight="@dimen/activity horizontal margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >
    <TextView
        android:id="@+id/TextView1"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:text="Editor1"
        android:textAppearance="?android:attr/textAppearanceMedium"
        android:textColor="#FFFFFF" />
    <AutoCompleteTextView
        android:id="@+id/EditText1"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
```

```
android:layout_below="@+id/TextView1"
        android:layout_centerHorizontal="true"
        android:layout marginTop="15dp"
        android:background="#FFFFFF"
        android:ems="10"/>
    <TextView
        android:id="@+id/TextView2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout alignLeft="@+id/TextView1"
        android:layout_below="@+id/EditText1"
        android:layout marginTop="20dp"
        android:text="Editor2"
        android:textAppearance="?android:attr/textAppearanceMedium"
        android:textColor="#FFFFFF" />
    <AutoCompleteTextView
        android:id="@+id/EditText2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/EditText1"
        android:layout_below="@+id/TextView2"
        android:layout marginTop="22dp"
        android:background="#FFFFFF"
        android:ems="10"/>
</RelativeLayout>
```

Step: 2 Create menu item -main.xml

main.xml

This XML code generates menu which looks like this-->



Step:1 Create res>xml> userpreference.xml

```
<?xml version="1.0" encoding="utf-8"?>
<PreferenceScreen
  xmlns:android="http://schemas.android.com/apk/res/android">

<ListPreference
    android:key="PREF_NAME_LEN"
    android:title="Name Length"
    android:summary="Select Legth of name to display"
    android:entries="@array/name_Length"
    android:entryValues="@array/name_length_val"
    android:dialogTitle="NameLength"
    android:defaultValue="5"
    />
</PreferenceScreen>
```

<u>Step:2</u> Create array in res>values>arrays.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
 <string-array name="name_length">
   <item>All</item>
   <item>2></item>
   <item>3></item>
   <item>4></item>
   <item>5></item>
   <item>6></item>
   <item>7></item>
 </string-array>
   <string-array name="name_length_val">
   <item>1</item>
   <item>2</item>
   <item>3</item>
   <item>4</item>
   <item>5</item>
   <item>6</item>
   <item>7</item>
 </string-array>
@Override
   public boolean onCreateOptionsMenu(Menu menu)
                                                           creating Option/Activity Menu
       MenuInflater menuInflater = getMenuInflater();
                                                           which we created in main.xml
       menuInflater.inflate(R.menu.main, menu);
       return true;
   @Override//Option menu selection listener
```

```
public boolean onOptionsItemSelected(MenuItem item)
        switch (item.getItemId())
                                                         If Swap_item is selected
                                                         then swap both text
        case R.id.swap item:
            temp1 = editor1.getText().toString();
            temp2 = editor2.getText().toString();
            editor1.setText(temp2);
            editor2.setText(temp1);
                                                            If remove item is selected
             return true:
                                                            then Clear focused field
        case R.id.remove_item: _
             removeSelectedField();
                                                            using helping function
             return true;
        default:
            return super.onOptionsItemSelected(item);
        }
                                                                  If focused filed is editor1
    @Override //dynamic menu selection changes
                                                                  and its empty then disable
    public boolean onPrepareOptionsMenu(Menu menu)
                                                                  remove_item option
      initializeFields();
      super.onPrepareOptionsMenu(menu);
      if(selectedField.equals("field1") && editor1.getText().toString().equals(""))
             menu.getItem(1).setEnabled(false);
      else if(selectedField.equals("field2")&& editor2.getText().toString().equals(""))
      {
             menu.getItem(1).setEnabled(false);
                                                                 If focused filed is editor2
      }
                                                                 and its empty then disable
      else
                                                                 remove item option
             menu.getItem(1).setEnabled(true);
      return true;
                                              or else keep that option enabled
public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo
menuInfo)
    {
      super.onCreateContextMenu(menu, v, menuInto);
                                                                Create Context menu with
      menu.setHeaderTitle("Context Menu");
                                                                Title and a menu item
      menu.add(0,Menu.FIRST,Menu.NONE,"Clear Text");
    public boolean onContextItemSelected(MenuItem item)
      if(item.getItemId() == Menu.FIRST)
                                                              if Context menu's first and
             removeSelectedField();
                                                              only item selected then Clear
             return true;
                                                              AutoCompleteTextViews
      }
             return super.onContextItemSelected(item);
```

```
public void initializeFields()
   {
     ArrayAdapter<String> adapter = new
ArrayAdapter<String>(this, android.R.layout.simple_dropdown_item_1line, androidBooks);
       editor1 = (AutoCompleteTextView)findViewById(R.id.EditText1);
       editor2 = (AutoCompleteTextView)findViewById(R.id.EditText2);
       editor1.setThreshold(3);
       editor1.setAdapter(adapter);
       editor2.setThreshold(3);
       editor2.setAdapter(adapter);
   public void removeSelectedField()
     if(selectedField.equals("field1") )
     {
           editor1.setText("");
     else if(selectedField.equals("field2"))
           editor2.setText("");
   }
```