Appendix_C

Source code

FirstFragment.java

```
package com.isb.mateoceballos.computerscienceinternalassesment;
import android.app.Fragment;
import android.content.Context;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
import android.widget.Button;
import android.widget.Toast;
import java.io.BufferedReader;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStreamReader;
//import android.content.Context;
public class FirstFragment extends Fragment{
   View myView;
    Button plusbtn1, minusbtn1, plusbtn2, minusbtn2, savebtn, loadbtn;
   TextView textView1, textView2, displayVals;
    static int Item1;
    static int Item2;
    String FileName;
    String it1;
   String it2;
    @Nullable
    @Override
   public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle
savedInstanceState) {
       myView = inflater.inflate(R.layout.first objective, container, false);
        plusbtn1 = (Button)myView.findViewById(R.id.plsubtn1);
        plusbtn2 = (Button)myView.findViewById(R.id.plusbtn1);
        minusbtn1 = (Button)myView.findViewById(R.id.minusbtn1);
        minusbtn2 = (Button)myView.findViewById(R.id.minusbtn2);
        savebtn = (Button)myView.findViewById(R.id.savebtn);
        loadbtn = (Button)myView.findViewById(R.id.loadbtn);
        textView1 = (TextView) myView.findViewById(R.id.textView1);
        textView2 = (TextView) myView.findViewById(R.id.textView2);
```

```
displayVals = (TextView)myView.findViewById(R.id.displayVals);
        Item1 = 0;
        Item2 = 0;
        plusbtn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Item1++;
                textView1.setText(Integer.toString(Item1));
        });
        plusbtn2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Item2++;
                textView2.setText(Integer.toString(Item2));
        });
        minusbtn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(Item1 <= 0) {
                   Item1 = 0;
                   textView1.setText(Integer.toString(Item1));
                } else {
                   Item1--;
                   textView1.setText(Integer.toString(Item1));
                }
        });
        minusbtn2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(Item2 <= 0) {
                    Item2 = 0;
                    textView2.setText(Integer.toString(Item2));
                } else {
                    Item2--;
                    textView2.setText(Integer.toString(Item2));
                }
        });
        savebtn.setOnClickListener(new View.OnClickListener() {
               @Override
               public void onClick(View v) {
                   FileName = "Obj1vals";
                   it1 = textView1.getText().toString()+"\n";
                   it2 = textView2.getText().toString()+"\n";
                   try {
                       FileOutputStream fileOutputStream =
getActivity().openFileOutput(FileName, Context.MODE PRIVATE);;
                       fileOutputStream.write(it1.getBytes());
                       fileOutputStream.write(it2.getBytes());
                       fileOutputStream.close();
                       Toast.makeText(getActivity(), "Text saved to " + FileName,
Toast.LENGTH LONG).show();
                       textView1.setText("0");
```

```
textView2.setText("0");
                   } catch (FileNotFoundException e) {
                       e.printStackTrace();
                   } catch (IOException e) {
                       e.printStackTrace();
           });
        loadbtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String Message;
                try {
                    FileInputStream fileInputStream =
getActivity().openFileInput(FileName);
                    InputStreamReader inputStreamReader = new
InputStreamReader(fileInputStream);
                    BufferedReader bufferedReader = new
BufferedReader(inputStreamReader);
                    StringBuffer stringBuffer = new StringBuffer();
                    while((Message=bufferedReader.readLine()) !=null ) {
                        stringBuffer.append(Message + "\n");
                    displayVals.setText(stringBuffer.toString());
                } catch (FileNotFoundException e) {
                    e.printStackTrace();
                } catch (IOException e) {
                    e.printStackTrace();
        });
        return myView;
    }
```

SecondFragment.java

```
package com.isb.mateoceballos.computerscienceinternalassesment;
import android.app.Fragment;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
 * Created by miguelceballosoldmac on 26/05/16.
public class SecondFragment extends Fragment {
   View myView;
    @Nullable
    @Override
   public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle
savedInstanceState) {
       myView = inflater.inflate(R.layout.second_objective, container, false);
       return myView;
    }
ThirdFragment.java
package com.isb.mateoceballos.computerscienceinternalassesment;
import android.app.Fragment;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
 * Created by miguelceballosoldmac on 26/05/16.
public class ThirdFragment extends Fragment {
   View myView;
    @Nullable
    @Override
   public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle
savedInstanceState) {
       myView = inflater.inflate(R.layout.third objective, container, false);
       return myView;
}
```

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   android:layout width="match parent" android:layout height="match parent">
    <TextView
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="ITEM1"
        android:id="@+id/textView3"
        android:layout marginTop="77dp"
        android:layout marginLeft="26dp"
        android:layout_marginStart="26dp"
       android:layout_alignParentTop="true"
        android:layout alignParentLeft="true"
        android:layout_alignParentStart="true" />
    <TextView
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:textAppearance="?android:attr/textAppearanceLarge"
       android:text="ITEM2"
       android:id="@+id/textView4"
       android:layout below="@+id/textView3"
        android:layout_alignLeft="@+id/textView3"
        android:layout alignStart="@+id/textView3"
        android:layout marginTop="40dp" />
    <Button
       style="?android:attr/buttonStyleSmall"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="+"
        android:id="@+id/plsubtn1"
       android:layout_above="@+id/textView4"
       android:layout centerHorizontal="true" />
    <Button
       style="?android:attr/buttonStyleSmall"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:text="-"
        android:id="@+id/minusbtn1"
       android:layout alignTop="@+id/plsubtn1"
       android:layout toRightOf="@+id/plsubtn1"
       android:layout toEndOf="@+id/plsubtn1" />
        style="?android:attr/buttonStyleSmall"
        android:layout width="wrap content"
       android:layout height="wrap content"
       android: text="+"
        android:id="@+id/plusbtn1"
       android:layout alignBottom="@+id/textView4"
        android:layout_centerHorizontal="true" />
    <Button
        style="?android:attr/buttonStyleSmall"
       android:layout width="wrap content"
       android:layout height="wrap content"
```

```
android:text="-"
       android:id="@+id/minusbtn2"
        android:layout alignTop="@+id/plusbtn1"
        android:layout alignLeft="@+id/minusbtn1"
       android:layout_alignStart="@+id/minusbtn1" />
    <TextView
        android:layout_width="wrap_content"
        android: layout height="wrap content"
       android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="0"
        android:id="@+id/textView2"
        android:layout marginRight="38dp"
       android:layout marginEnd="38dp"
       android:layout_alignBottom="@+id/minusbtn2"
        android:layout alignParentRight="true"
       android:layout alignParentEnd="true" />
    <TextView
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="0"
        android:id="@+id/textView1"
        android:layout alignBottom="@+id/minusbtn1"
        android:layout alignLeft="@+id/textView2"
       android:layout alignStart="@+id/textView2" />
    <TextView
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:textAppearance="?android:attr/textAppearanceLarge"
       android:text="Values appear here"
       android:id="@+id/displayVals"
       android:layout_alignParentLeft="true"
       android:layout_alignParentStart="true"
       android:layout_alignParentBottom="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentEnd="true"
        android:layout below="@+id/savebtn" />
    <Button
       android:layout width="wrap content"
       android:layout height="wrap_content"
       android:text="Save"
       android:id="@+id/savebtn"
       android:layout alignTop="@+id/loadbtn"
       android:layout toRightOf="@+id/textView4"
       android:layout toEndOf="@+id/textView4" />
    <Button
       android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:text="Load"
        android:id="@+id/loadbtn"
        android:layout centerVertical="true"
        android:layout toRightOf="@+id/savebtn"
        android:layout toEndOf="@+id/savebtn" />
</RelativeLayout>
```

SecondObjective.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:layout width="match parent" android:layout height="match parent">
    <TextView
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="Second Layout"
        android:id="@+id/textView2"
        android:layout alignParentTop="true"
        android:layout centerHorizontal="true"
        android:layout marginTop="171dp" />
</RelativeLayout>
ThirdObjective.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:layout width="match parent" android:layout height="match parent">
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="Third Layout"
        android:id="@+id/textView2"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="171dp" />
</RelativeLayout>
Activity main drawer.xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <group android:checkableBehavior="single">
            android:id="@+id/nav_first_objective"
            android:title="First Objective" />
        <item
            android:id="@+id/nav second objective"
            android:title="Second Objective" />
            android:id="@+id/nav third objective"
            android:title="Third Objective" />
    </group>
</menu>
```