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Lab 2: Temp Converter2

ITMD 455-02

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 \* 1-31-17  
 \* MainActivity.java  
 \* Lab 2  
 \* This program creates a temperature converter android application. It will convert the number  
 \* selected on the seekbar to fahrenheit, display the 5 day forecast to the user when they  
 \* select the checkbox, and go back to the original activity when the user hits the back button.  
 \* Written by Deborah Barndt.  
 \*/***package** com.example.i7\_2670.tempconverter2;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.view.ViewStub;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.CheckBox;  
**import** android.widget.CompoundButton;  
**import** android.widget.ImageButton;  
**import** android.widget.ListView;  
**import** android.widget.SeekBar;  
**import** android.widget.SeekBar.OnSeekBarChangeListener;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity  
{  
 *// Declare seekbar object.* SeekBar **seekBar**;  
  
 *// Declare textview object.* TextView **textView**;  
  
 *// Declare member variables for seekbar.* **int discrete** = 0;  
 **int start** = 50;  
  
 *// Progress tracker.* **int start\_position** = 50;  
  
 **int temp** = 0;  
  
 *// Declare objects for viewstub.* ViewStub **stub**;  
 CheckBox **checkBox**;  
  
 *// Declare listview object.* ListView **lv**;  
  
 @Override  
 **public void** onCreate(Bundle savedInstanceState)  
 {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 *// Declare viewstub object.* **stub** = (ViewStub) findViewById(R.id.***viewStub1***);  
 @SuppressWarnings(**"unused"**)  
 View inflated = **stub**.inflate();  
 **stub**.setVisibility(View.***INVISIBLE***);  
  
 *// ViewStub logic.* **checkBox** = (CheckBox) findViewById(R.id.***checkbox1***);  
  
 *// Handle checkbox click event.* **checkBox**.setOnCheckedChangeListener(**new** CheckBox.OnCheckedChangeListener()  
 {  
 **public void** onCheckedChanged(CompoundButton arg0, **boolean** isChecked)  
 {  
 **if**(isChecked)  
 {  
 *// Remove objects from parent view to allow for child view.* **checkBox**.setVisibility(View.***GONE***);  
 **seekBar**.setVisibility(View.***GONE***);  
 **textView**.setVisibility(View.***GONE***);  
 findViewById(R.id.***textView2***).setVisibility(View.***GONE***);  
  
 **stub**.setVisibility(View.***VISIBLE***);  
 }  
 }  
 });  
  
 *// Seekbar logic.* **textView** = (TextView) findViewById(R.id.***textview***);  
 **final** TextView textView2;  
 textView2 = (TextView) findViewById(R.id.***textView2***);  
  
 *// Set default view.* **textView**.setText(**" Celsius at 0°"**);  
 **seekBar** = (SeekBar) findViewById(R.id.***seekbar***);  
 **seekBar**.setProgress(**start\_position**);  
  
 *// Create event handler for seekbar.* **seekBar**.setOnSeekBarChangeListener(**new** SeekBar.OnSeekBarChangeListener()  
 {  
 @Override  
 **public void** onStopTrackingTouch(SeekBar seekBar)  
 {  
 *// For the initial view result.* **if**(**temp** == 0)  
 {  
 */\*Toast.makeText(getBaseContext(), "Fahrenheit result 32°",  
 Toast.LENGTH\_SHORT).show();\*/* textView2.setText(**"Fahrenheit result 32°"**);  
  
 *// Set the textview visibility.* textView2.setVisibility(View.***VISIBLE***);  
 }  
  
 **else** {  
 */\*Toast.makeText(getBaseContext(), "Fahrenheit result "  
 + String.valueOf(discrete) + "°", Toast.LENGTH\_SHORT).show();\*/* textView2.setText(**"Fahrenheit result "** + String.*valueOf*(**discrete**) + **"°"**);  
  
 *// Set the textview visibility.* textView2.setVisibility(View.***VISIBLE***);  
 }  
  
 }  
  
 @Override  
 **public void** onStartTrackingTouch(SeekBar seekBar)  
 {  
 *//* ***TODO Auto-generated method stub.*** }  
  
 @Override  
 **public void** onProgressChanged(SeekBar seekBar, **int** progress, **boolean** fromUser)  
 {  
 *// To convert progress passed as discrete (Fahrenheit) value.* **temp** = progress-**start**;  
  
 *// Convert Celsius to Fahrenheit temp.* **discrete** = (**int**) Math.*round*((((**temp** \* 9.0) / 5.0) + 32));  
 **textView**.setText(**" Celsius at "** + **temp** + **"°"**);  
 }  
 });  
  
 *// ImageButton logic.* ImageButton imageButton = (ImageButton)**this**.findViewById(R.id.***imageButton***);  
 imageButton.setOnClickListener(**new** View.OnClickListener()  
 {  
 @Override  
 **public void** onClick(View v)  
 {  
 finish();  
 }  
 });  
  
 *// Handle imageButton click event.* imageButton.setOnClickListener(**new** View.OnClickListener()  
 {  
 @Override  
 **public void** onClick(View v)  
 {  
 *// Remove objects from child view to allow for parent view.* **checkBox**.setVisibility(View.***VISIBLE***);  
 **seekBar**.setVisibility(View.***VISIBLE***);  
 **textView**.setVisibility(View.***VISIBLE***);  
 findViewById(R.id.***textView2***).setVisibility(View.***VISIBLE***);  
 **checkBox**.setChecked(**false**);  
  
 **stub**.setVisibility(View.***GONE***);  
 }  
 });  
  
 *// Listview logic.* String[] wkTemps = **new** String[] {**"Monday Feb 6: 35°/32°"**,  
 **"Tuesday Feb 7: 41°/27°"**, **"Wednesday Feb 8: 28°/14°"**,  
 **"Thursday Feb 9: 21°/13°"**, **"Friday Feb 10: 26°/22°"**};  
  
 **lv** = (ListView) findViewById(R.id.***listView***);  
 @SuppressWarnings({**"unchecked"**, **"rawtypes"**})  
  
 */\*\*  
 \* To use a basic ArrayAdapter, you just need to initialize the adapter and attach  
 \* the adapter to the ListView. First, initialize the adapter.  
 \*\*/* ArrayAdapter adapter = **new** ArrayAdapter(**this**, android.R.layout.***simple\_list\_item\_1***,  
 android.R.id.***text1***, wkTemps);  
  
 *// Assign adapter to ListView.* **lv**.setAdapter(adapter);  
 }  
}