

```
1 package me.jamiepeterson.al4retirement;
2
3 import android.graphics.Color;
4 import android.support.v7.app.AppCompatActivity;
5 import android.os.Bundle;
6 import android.view.View;
7 import android.widget.Button;
8 import android.widget.EditText;
9 import android.widget.TextView;
10
11 public class MainActivity extends AppCompatActivity {
12
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_main);
17
18         //Button
19         Button button = (Button)findViewById(R.id.submit);
20         ButtonHandler temp = new ButtonHandler();
21         button.setOnClickListener(temp);
22     }
23
24     //Button Handler
25     private class ButtonHandler implements View.OnClickListener{
26         public void onClick(View v){
27             //Get EditTexts
28             EditText principleText = (EditText)findViewById(R.id.principle);
29             EditText additionText = (EditText)findViewById(R.id.addition);
30             EditText yearsText = (EditText)findViewById(R.id.years);
31             EditText rateText = (EditText)findViewById(R.id.rate);
32
33             //Get Strings
34             String principle = principleText.getText().toString();
35             String addition = additionText.getText().toString();
36             String years = yearsText.getText().toString();
37             String rate = rateText.getText().toString();
38
39
40             //Get Floats
41             Float p = Float.parseFloat(principle);
42             Float a = Float.parseFloat(addition);
43             Float n = Float.parseFloat(years);
44             Float r = Float.parseFloat(rate);
45
46             boolean error = false;
47             //Error Check
48             if(!(p > (float)0.0)) {
49                 principleText.setBackgroundColor(Color.parseColor("#FF0000"));
50                 error = true;
51             }
52             else
53                 principleText.setBackgroundColor(Color.parseColor("#FFFFFF"));
54             if(!(a > (float)0.0)) {
```

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55         additionText.setBackgroundColor(Color.parseColor("#FF0000"));
56         error = true;
57     }
58     else
59         additionText.setBackgroundColor(Color.parseColor("#FFFFFF"));
60     if(!(n > (float)0.0)) {
61         yearsText.setBackgroundColor(Color.parseColor("#FF0000"));
62         error = true;
63     }
64     else
65         yearsText.setBackgroundColor(Color.parseColor("#FFFFFF"));
66     if(r > (float)100.0) {
67         rateText.setBackgroundColor(Color.parseColor("#FF0000"));
68         error = true;
69     }
70     else
71         rateText.setBackgroundColor(Color.parseColor("#FFFFFF"));
72
73     if(!error){
74         //Calculate
75         Retirement s = new Retirement(p,a,n,r);
76         //Output
77         TextView output = (TextView)findViewById(R.id.output);
78         output.setText("$" + s.getAmount());
79     }
80     //Else Nothing
81 }
82 }
83 }
84 }
```