```
 1 package com.example.steve.qa_assignment03;
 2
 3 import android.support.v7.app.AppCompatActivity;
 4 import android.os.Bundle;
 5 import android.view.View;
 6 import android.widget.Button;
 7 import android.widget.TextView;
 8 import android.widget.Toast;
 9
10 public class MainActivity extends AppCompatActivity {
11
12     public enum Ops {
13         PLUS("+"),
14         MOINS("-"),
15         FOIS("*"),
16         DIV("/");
17
18         private String name = "";
19         Ops(String name){this.name = name;}
20         public String toString(){return name;}
21     }
22
23
24     private TextView screen;
25     private int op1=0;
26     private int op2=0;
27     private Ops operator=null;
28     private boolean isOp1=true;
29
30     @Override
31     protected void onCreate(Bundle savedInstanceState) {
32         super.onCreate(savedInstanceState);
33         setContentView(R.layout.activity_main);
34
35         screen = (TextView) findViewById(R.id.screen);
36         Button btnEgal = (Button)findViewById(R.id.btnEgal
   );
37         btnEgal.setOnClickListener(new View.
   OnClickListener() {
38             @Override
39             public void onClick(View v) {
40                 compute();
41             }
42         });
43
```

```
44          Button btnClear = (Button)findViewById(R.id.
    btnClear);
45          btnClear.setOnClickListener(new View.
    OnClickListener() {
46              @Override
47              public void onClick(View view) {
48                  clear();
49              }
50          });
51      }
52
53
54      private void updateDisplay() {
55          int v=op1;
56          if(!isOp1) {
57              v=op2;
58          }
59
60          screen.setText(String.format("%9d",v));
61      }
62
63
64      public void compute() {
65          if(isOp1) {
66              // do nothing
67          } else {
68              switch(operator) {
69                  case PLUS  : op1 = op1 + op2; break;
70                  case MOINS : op1 = op1 - op2; break;
71                  case FOIS  : op1 = op1 * op2; break;
72                  case DIV   : op1 = op1 * op2; break;
73                  default : return; // do nothing if no
    operator
74              }
75
76              op2 = 0;
77              isOp1 = true;
78              updateDisplay();
79          }
80      }
81
82
83      private void clear() {
84          op1 = 0;
85          op2 = 0;
```

```
 86          operator = null;
 87          isOp1 = true;
 88          updateDisplay();
 89      }
 90
 91      public void setOperator(View v) {
 92          switch (v.getId()) {
 93              case R.id.btnPlus  : operator=Ops.PLUS;
    break;
 94              case R.id.btnMoins : operator=Ops.MOINS;
    break;
 95              case R.id.btnFois  : operator=Ops.FOIS;
    break;
 96              case R.id.btnDiv   : operator=Ops.DIV;
    break;
 97              default :
 98                  Toast.makeText(this, "Opérateur non
    reconnu",Toast.LENGTH_LONG);
 99                  return; // do nothing if no operator
100          }
101          isOp1=false;
102          updateDisplay();
103      }
104
105
106      public void addNumber(View v){
107          try {
108              int val = Integer.parseInt(((Button)v).
    getText().toString());
109              if (isOp1) {
110                  op1 = op1 * 10 + val;
111                  updateDisplay();
112              } else {
113                  op2 = op2 * 10 + val;
114                  updateDisplay();
115              }
116          }catch (NumberFormatException |
    ClassCastException e) {
117              Toast.makeText(this, "Valeur erronée",Toast.
    LENGTH_LONG);
118          }
119      }
120
121 }
122
```