```
package cms tp19;
//Ci-dessous on présente la première version lite (sans traitement des cas
//"spéciaux")
import javax.swinq.*;
import java.awt.event.*;
import java.awt.*;
@SuppressWarnings("serial")
class CalculetteLite extends JFrame implements ActionListener
    JButton tab[] = new JButton[16];
    String labelStr, mot1="", mot2 = "";
    char labelChar, operation;
    double nombre1, nombre2;
    boolean operationEnCours = false, estVirgule = false;
    public CalculetteLite()
        setResizable(false);
        setDefaultCloseOperation(EXIT ON CLOSE);
        setTitle("Ma Calculette");
        int large=258, haut=281;
        setVisible(true);
        Toolkit tkit = Toolkit.getDefaultToolkit();
        Dimension dimMoniteur = tkit.getScreenSize();
        setBounds(dimMoniteur.width/2-large/2,
                     dimMoniteur.height/2-haut/2,large,haut);
```

```
Container conPen = getContentPane();
    conPen.setLayout(new GridLayout(4,4));
    //une chaîne qui contient toutes les étiquettes des boutons
    // (dans le "bon" ordre)
    String labels = "789/456x123-0.=+";
    for(int i=0;i<16;i++)
        tab[i] = new JButton(labels.substring(i,i+1));
        tab[i].addActionListener(this);
        if(i==3 | | i==7 | | i==11 | | i==15)
             tab[i].setBackground(Color.cyan);
        else if(i==13 || i==14)
             tab[i].setBackground(Color.green);
        else
             tab[i].setBackground(Color.white);
        conPen.add(tab[i]);
    //setVisible(true);
public void actionPerformed(ActionEvent e) {
    labelStr = ((JButton)e.getSource()).getText();
    labelChar = labelStr.charAt(0);
    //les touches numeriques et le point décimal
    if(labelChar>='0' && labelChar<='9' | labelChar=='.')</pre>
```

```
if(!operationEnCours)
        mot1 += labelStr;
        System.out.print(labelStr);
    else
        mot2 += labelStr;
        System.out.print(labelStr);
//les touches "operations"
else if( labelChar=='+' || labelChar=='-'
         | | labelChar=='x' | | labelChar=='/')
        operation = labelChar;
        System.out.print(" " + operation + " ");
        operationEnCours = true;
//la touche "egal"
else
        nombre1 = Double.parseDouble(mot1);
        nombre2 = Double.parseDouble(mot2);
        switch(operation)
             case '+' : System.out.println(" = "
                                           + (nombre1 + nombre2));
                          break;
```