

```
public class SchoolSubject
{
    // PARTIE 1: algorithmes retournent toujours la valeur -1
    // Ver 1: solution base

    private String name;
    private ArrayList<Integer> alMarks = new ArrayList<Integer>();

    public SchoolSubject(String pName)
    {
        name = pName;
    }

    public String getName()
    {
        return name;
    }

    public void addMark(int score)
    {
        alMarks.add(score);
    }

    public int getBestMark()
    {
        return -1;
    }

    public int getWorstMark()
    {
        return -1;
    }

    public double calculateAverage()
    {
        return -1;
    }

    public int calculateRoundedAverage()
    {
        return -1;
    }

    public Object[] toArray()
    {
        return alMarks.toArray();
    }

    public void clear()
    {
        alMarks.clear();
    }
}
```

```

public class MainFrame extends javax.swing.JFrame
{
    // PARTIE 1: algorithmes retournent toujours la valeur -1
    // Ver 1: solution base

    private SchoolSubject subject = null;

    public MainFrame()
    {
        initComponents();
        subjectPanel.setVisible(false);
    }

    public void updateView()
    {
        nameLabel.setText(subject.getName());
        marksList.setListData(subject.toArray());

        averageLabel.setText(String.valueOf(subject.calculateRoundedAverage()));
        minLabel.setText(String.valueOf(subject.getWorstMark()));
        maxLabel.setText(String.valueOf(subject.getBestMark()));
    }
    // Skipped: ... initComponents { ... }
    private void createButtonActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_createButtonActionPerformed
        subject = new SchoolSubject(subjectTextField.getText());
        subjectPanel.setVisible(true);
        updateView();
    } //GEN-LAST:event_createButtonActionPerformed

    private void addButtonActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_addButtonActionPerformed
        subject.addMark(Integer.valueOf(markTextField.getText()));
        updateView();

        markTextField.requestFocus();
    } //GEN-LAST:event_addButtonActionPerformed

    private void clearButtonActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_clearButtonActionPerformed
        subject.clear();
        updateView();

        markTextField.requestFocus();
    } //GEN-LAST:event_clearButtonActionPerformed
    // Skipped: ... Look & Feel
    // Variables declaration - do not modify //GEN-BEGIN:variables
    private javax.swing.JButton addButton;
    private javax.swing.JLabel averageLabel;
    private javax.swing.JButton clearButton;
    private javax.swing.JButton createButton;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTextField markTextField;
    private javax.swing.JList marksList;
    private javax.swing.JLabel maxLabel;
    private javax.swing.JLabel minLabel;
    private javax.swing.JLabel nameLabel;
    private javax.swing.JPanel subjectPanel;
    private javax.swing.JTextField subjectTextField;
    // End of variables declaration //GEN-END:variables
}

```