

## Appendix 'B'

### Ready Reference for GUI Programming

#### Swing Control Methods & Properties

Class	Swing Control	Methods / Properties	
<b>Jbutton</b>	<b>jButton</b>	Methods	<ul style="list-style-type: none"> <li>• <b>getText()</b></li> <li>• <b>setText()</b></li> </ul>
		Properties	<ul style="list-style-type: none"> <li>• Background</li> <li>• <b>Enabled</b></li> <li>• Font</li> <li>• Foreground</li> <li>• <b>Text</b> &gt; <b>have same</b></li> <li>• <b>Label</b> &gt; <b>value (by default)</b></li> </ul>
<b>Jlabel</b>	<b>jLabel</b>	Methods	<ul style="list-style-type: none"> <li>• <b>getText()</b></li> <li>• <b>setText()</b></li> </ul>
		Properties	<ul style="list-style-type: none"> <li>• Background</li> <li>• <b>Enabled</b></li> <li>• Font</li> <li>• Foreground</li> <li>• <b>Text</b></li> </ul>
<b>JtextField</b>	<b>jTextField</b>	Methods	<ul style="list-style-type: none"> <li>• <b>getText()</b></li> <li>• <b>isEditable()</b></li> <li>• <b>isEnabled()</b></li> <li>• <b>setText()</b></li> </ul>
		Properties	<ul style="list-style-type: none"> <li>• Background</li> <li>• <b>Editable</b></li> <li>• <b>Enabled</b></li> <li>• Font</li> <li>• Foreground</li> <li>• <b>Text</b></li> </ul>

Class	Swing Control	Methods / Properties	
<b>JRadioButton</b>	<b>jRadioButton</b>	Methods	<ul style="list-style-type: none"> <li>• <b>getText()</b></li> <li>• <b>setText()</b></li> <li>• <b>isSelected()</b></li> <li>• <b>setSelected()</b></li> </ul>
		Properties	<ul style="list-style-type: none"> <li>• Background</li> <li>• <b>Button Group</b></li> <li>• <b>Enabled</b></li> <li>• Font</li> <li>• Foreground</li> <li>• Label</li> <li>• <b>Selected</b></li> <li>• <b>Text</b></li> </ul>
<b>JcheckBox</b>	<b>jCheckBox</b>	Methods	<ul style="list-style-type: none"> <li>• <b>getText()</b></li> <li>• <b>setText()</b></li> <li>• <b>isSelected()</b></li> <li>• <b>setSelected()</b></li> </ul>
		Properties	<ul style="list-style-type: none"> <li>• <b>Button Group</b></li> <li>• <b>Font</b></li> <li>• <b>Foreground</b></li> <li>• <b>Label</b></li> <li>• <b>Selected</b></li> <li>• <b>Text</b></li> </ul>
<b>ButtonGroup</b>	<b>jButtonGroup</b>	Properties	<ul style="list-style-type: none"> <li>• <b>Add</b></li> </ul>
<b>JcomboBox</b>	<b>jComboBox</b>	Methods	<ul style="list-style-type: none"> <li>• <b>getSelectedItem()</b></li> <li>• <b>getSelectedIndex()</b></li> <li>• <b>setModel()</b></li> </ul>
		Properties	<ul style="list-style-type: none"> <li>• Background</li> <li>• <b>ButtonGroup</b></li> <li>• <b>Editable</b></li> <li>• <b>Enabled</b></li> <li>• Font</li> <li>• Foreground</li> <li>• <b>Model</b></li> <li>• <b>SelectedIndex</b></li> <li>• <b>SelectedItem</b></li> <li>• <b>Text</b></li> </ul>



Class	Swing Control	Methods / Properties	
<b>Jlist</b>	<b>jList</b>	Methods	• <b>getSelectedValue()</b>
		Properties	• Background • <b>Enabled</b> • Font • Foreground • <b>Model</b> • <b>SelectedIndex</b> • <b>SelectedItem</b> • <b>SelectionMode</b> • <b>Text</b>
<b>Jtable</b>	<b>jTable</b>	Methods	• <b>addRow()</b> • <b>getModel()</b>
		Properties	• <b>model</b>
<b>JOptionPane</b>		Methods	• <b>showMessageDialog()</b>
<b>DefaultTableModel</b>		Methods	• <b>getRowCount()</b> • <b>removeRow()</b> • <b>addRow()</b>

### Commonly used Methods

Class	Methods
Integer	<ul style="list-style-type: none"><li>• <b>parseInt()</b></li><li>• <b>toDouble()</b></li><li>• <b>toString()</b></li></ul>
String	<ul style="list-style-type: none"><li>• <b>concat()</b></li><li>• <b>length()</b></li><li>• <b>substring()</b></li><li>• <b>toDouble()</b></li><li>• <b>toLowerCase()</b></li><li>• <b>toUpperCase()</b></li><li>• <b>trim()</b></li></ul>
Double	<ul style="list-style-type: none"><li>• <b>parseDouble()</b></li><li>• <b>toString()</b></li><li>• <b>toInt()</b></li></ul>
Math	<ul style="list-style-type: none"><li>• <b>pow()</b></li><li>• <b>round()</b></li></ul>

### Database Connectivity Methods

Class	Methods
Connection	<ul style="list-style-type: none"><li>• <b>createStatement()</b></li><li>• <b>close()</b></li></ul>
DriverManager Statement ResultSet	<ul style="list-style-type: none"><li>• <b>getConnection()</b></li><li>• <b>executeQuery()</b></li><li>• <b>next()</b></li><li>• <b>first()</b></li><li>• <b>last()</b></li><li>• <b>getString()</b></li></ul>
Exception	<ul style="list-style-type: none"><li>• <b>getMessage()</b></li></ul>
System	<ul style="list-style-type: none"><li>• <b>exit()</b></li></ul>

**Note:** The visual properties of any of the elements and Data connectivity methods (the properties/ methods, which are not highlighted in the above tables) will not be tested in the Theory examination but may be used by the student in the Practicals and Projects.

## References

### **Suggested Reference Books**

#### **Introduction to Computer System**

1. Rajaraman, FUNDAMENTALS OF COMPUTERS 4th Edition, Prentice Hall of India.
2. Peter Norton, INTRODUCTION TO COMPUTER 4th Edition, Tata McGraw Hill

#### **Introduction to Programming**

1. Heiko Böck, The Definitive Guide to the NetBeans Platform 6.5, Apress

#### **Relational Database Management System and SQL**

1. Lerry Ullman, MYSQL Database, Pearson Education, 2008

#### **Computer Network**

1. A.S. Tanenbaum, Computer Network 4th Edition, Prentice Hall of India P. Ltd.
2. Williams Stalling, Data Communication and Networks 5th Edition, Prentice Hall of India P. Ltd.

#### **Suggested Websites on e-Governance**

- [www.mit.gov.in](http://www.mit.gov.in)
- [www.esevaonline.com](http://www.esevaonline.com)
- [bhoomi.kar.nic.in](http://bhoomi.kar.nic.in)
- [aponline.gov.in](http://aponline.gov.in)
- [www.chips.nic.in](http://www.chips.nic.in)

#### **Suggested Websites on e-Business**

- [www.salesforce.com](http://www.salesforce.com)
- [www.zoho.com](http://www.zoho.com)
- [www.itcportal.com](http://www.itcportal.com)

#### **Suggested Websites on e-Learning**

- [www.moodle.org](http://www.moodle.org)
- [www.atutor.ca](http://www.atutor.ca)
- [www.w3schools.com](http://www.w3schools.com)
- [portal.unesco.org](http://portal.unesco.org)