

Introduction to Java

Creating UI

- Once you have identified the various Swing containers and components, you can use them to create the UI of the applications.
- For this, you need to import the classes and the interfaces available in the `javax.swing` package.
- You can create the following components:
 - `JFrame`
 - `JDialog`
 - `JPanel`
 - `JTabbedPane`
 - `JMenuBar`
 - `JMenu`
 - `JMenuItem`
 - `JLabel`
 - `TextField`

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- `JTextArea`
- `JCheckBox`
- `JRadioButton`
- `JList`
- `JComboBox`
- `JButton`
- `JOptionPane`
- The most commonly used constructors of the `JFrame` class are:
 - `JFrame()`
 - `JFrame(String str)`

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- The most commonly used methods of the `JFrame` class are:
 - `void add(Component comp)`
 - `void setSize(int width, int height)`
 - `void setVisible(boolean b)`
 - `Void setTitle(String title)`
- The most commonly used constructors of the `JDialog` class are:
 - `JDialog()`
 - `JDialog(Frame owner)`
 - `JDialog(Frame owner, boolean modal)`
 - `JDialog(Frame owner, String title)`

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- The most commonly used methods of the `JDialog` class are:
 - `void add(Component comp)`
 - `void setSize(int width, int height)`
 - `void setVisible(boolean b)`
 - `void setTitle(String title)`
- The most commonly used constructors of the `JPanel` class are:
 - `JPanel()`
 - `JPanel(LayoutManager layout)`
- The most commonly used methods of the `JPanel` class are:
 - `void add(Component comp)`
 - `void setSize(int width, int height)`
 - `void setVisible(boolean b)`

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- The most commonly used constructors of the `JTabbedPane` class are:
 - `JTabbedPane()`
 - `JTabbedPane(int tabPlacement)`
- The most commonly used methods of the `JTabbedPane` class are:
 - `void add(Component comp)`
 - `void addTab(String title, Component component)`
 - `void setSize(int width, int height)`
 - `void setVisible(boolean b)`

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- The most commonly used constructor of the `JMenuBar` class is `JMenuBar`.
- The most commonly used methods of the `JMenuBar` class are:
 - `int getMenu(int index)`
 - `int getMenuCount()`
- The most commonly used constructors of the `JMenu` class are:
 - `JMenu()`
 - `JMenu(String s)`
- The most commonly used methods of the `JMenu` class are:
 - `Component add(Component c)`
 - `void addSeparator()`

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- The most commonly used constructors of the `JMenuItem` class are:
 - `JMenuItem()`
 - `JMenuItem(String s)`
- The most commonly used methods of the `JMenuItem` class are:
 - `void setEnabled(boolean b)`
 - `void setMnemonic(int mnemonic)`
- The most commonly used constructors of the `JLabel` class are:
 - `JLabel()`
 - `JLabel(Icon image)`
 - `JLabel(String text)`

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- The most commonly used methods of the `JLabel` class are:
 - `void setText(String text)`
 - `void setSize(int width, int height)`
 - `void setVisible(boolean b)`
- The most commonly used constructors of the `JTextField` class are:
 - `JTextField()`
 - `JTextField(String text)`
 - `JTextField(int columns)`
- The most commonly used methods of the `JTextField` class are:
 - `void setText(String text)`
 - `void setSize(int width, int height)`
 - `void setVisible(boolean b)`
 - `String getText()`

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- The most commonly used constructors of the `JTextArea` class are:
 - `JTextArea()`
 - `JTextArea(String text)`
 - `JTextArea(int rows, int columns)`
- The most commonly used methods of the `JTextArea` class are:
 - `void setText(String text)`
 - `void setSize(int width, int height)`
 - `void setVisible(boolean b)`
 - `String getText()`

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- The most commonly used constructors of the `JCheckBox` class are:
 - `JCheckBox()`
 - `JCheckBox(String text)`
 - `JCheckBox(Icon icon)`
- The most commonly used methods of the `JCheckBox` class are:
 - `void setText(String text)`
 - `void setSize(int width, int height)`
 - `void setVisible(boolean b)`
 - `String getText()`
 - `boolean isSelected()`

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- The most commonly used constructors of the `JRadioButton` class are:
 - `JRadioButton()`
 - `JRadioButton(String text)`
 - `JRadioButton(Icon icon)`
- The most commonly used methods of the `JRadioButton` class are:
 - `void setText(String text)`
 - `void setSize(int width, int height)`
 - `void setVisible(boolean b)`
 - `String getText()`
 - `boolean isSelected()`

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- The most commonly used constructors of the `JList` class are:
 - `JList()`
 - `JList(Object[] listData)`
- The most commonly used methods of the `JList` class are:
 - `int getSelectedIndex()`
 - `Object getSelectedValue()`
 - `Object[] getSelectedValues()`
 - `void setSelectedIndex(int index)`
 - `void setSelectedValue(Object anObject, boolean shouldScroll)`

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- The most commonly used constructors of the `JComboBox` class are:

- `JComboBox()`
- `JComboBox(Object[] items)`

- The most commonly used methods of the `JComboBox` class are:

- `void addItem(Object anObject)`
- `void setSize(int width, int height)`
- `void setVisible(boolean b)`
- `Object getItemAt(int index)`

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- The most commonly used constructors of the `JButton` class are:
 - `JButton()`
 - `JButton(String text)`
 - `JButton(Icon icon)`
- The most commonly used methods of the `JButton` class are:
 - `void setText(String text)`
 - `void setSize(int width, int height)`
 - `void setVisible(boolean b)`
 - `String getText()`

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- The most commonly used constructors of the `JOptionPane` class are:
 - `JOptionPane()`
 - `JOptionPane(Object message)`
 - `JOptionPane(Object message, int messageType)`

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- The most commonly used methods of the `JOptionPane` class are:
 - `static int showConfirmDialog(Component parentComponent, Object message, String title, int optionType, int messageType, Icon icon)`
 - `Static Object showInputDialog(Component parentComponent, Object message, String title, int optionType, int messageType, Icon icon, Object[] selectionValues, Object initialSelectionValue)`
 - `static void showMessageDialog(Component parentComponent, Object message, String title, int messageType, Icon icon)`

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Just a minute

- Which one of the following classes is the sub class of the Window class?
 - JPanel
 - JFrame
 - JList
 - JTabbedPane

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Just a minute (Contd.)

- Solution:

- JFrame