

More Program Examples

- ❖ **Short Version**
 - ◆ `JOptionPane.showMessageDialog(null, "I like Rota");`
- ❖ **If you prefer you may combine multiple class files into one class file, see Slide 4**
 - ◆ **main** method is where the program execution starts
 - ◆ **main** method can be placed anywhere in file
- ❖ **Creating multiple objects of a class, see Slide 6**

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Creating Dialog Boxes

- ❖ **Use JOptionPane Class**
 - ◆ Call `showMessageDialog` Method
- ❖ `JOptionPane.showMessageDialog(null, "I like Saipan", "Good Beaches", icon);`
 - ◆ 1st Argument `null` positions dialog box in center
 - ◆ 2nd Argument specifies message to display in box
 - ◆ 3rd Argument specifies the box title in title bar
 - ◆ 4th Argument specifies the icon to be displayed

`JOptionPane.WARNING_MESSAGE`

`JOptionPane.QUESTION_MESSAGE`

`JOptionPane.INFORMATION_MESSAGE`

`JOptionPane.ERROR_MESSAGE`

`JOptionPane.PLAIN_MESSAGE`

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```
import javax.swing.*;
public class ShowBoxCls
{
    private String sMessage;
    ShowBoxCls()
    {
        sMessage = "I need a cup of Java.";
    }
    public void displayMessage()
    {
        JOptionPane.showMessageDialog(null, sMessage,
        "Wakeup!", JOptionPane.WARNING_MESSAGE);
    }
}

public class ShowBoxPrg
{
    public static void main(String[] args)
    {
        // Create a variable of type ShowMessageCls
        ShowBoxCls oMessageOne;
        // Create an object of the ShowMessageCls
        oMessageOne = new ShowBoxCls();
        // Call the method for the object
        oMessageOne.displayMessage();
        System.exit(0);
    }
}
```

```
/* Show Box Program 2 - All methods in one file
 * Author: Robert Laurie
 */
import javax.swing.*;
public class ShowBox2
{
    // Data declaration section
    private String sMessage;

    // Methods definition section
    ShowBox2() // Constructor
    {
        sMessage = "I need a cup of Java.";
    }
    public void displayMessage()
    {
        JOptionPane.showMessageDialog(null, sMessage);
    }
    public static void main(String[] args)
    {
        // Create a variable of type ShowMessage
        ShowBox2 oMessageOne;
        // Create an object of the ShowMessage
        oMessageOne = new ShowBox2();
        // Call the method for the object
        oMessageOne.displayMessage();
        System.exit(0);
    }
}
```

Slide Set 5 - Program Examples

```

/* Show Box Program 3 - Change the Message
 * Author: Robert Laurie
 */
import javax.swing.*;
public class ShowBox3
{
    // Data declaration section
    private String sMessage;

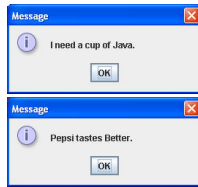
    // Methods definition section
    ShowBox3() // Constructor
    {
        sMessage = "I need a cup of Java.";
    }

    public void displayMessage()
    {
        JOptionPane.showMessageDialog(null,sMessage);
    }

    public void changeMessage(String sNewMsg)
    {
        sMessage = sNewMsg;
    }

    public static void main(String[] args)
    {
        ShowBox3 oMessageOne;
        oMessageOne = new ShowBox3();
        oMessageOne.displayMessage();
        oMessageOne.changeMessage("Pepsi tastes Better.");
        oMessageOne.displayMessage();
        System.exit(0);
    }
}

```



```

/* Show Box Program 4 - No Constructor
 * Author: Robert Laurie
 */
import javax.swing.*;
public class ShowBox4
{
    // Data declaration section
    private String sMessage;

    // Methods definition section
    public void displayMessage()
    {
        JOptionPane.showMessageDialog(null,sMessage);
    }

    public void changeMessage(String sNewMsg)
    {
        sMessage = sNewMsg;
    }

    public static void main(String[] args)
    {
        ShowBox4 oMessageOne;
        oMessageOne = new ShowBox4();
        oMessageOne.displayMessage();
        oMessageOne.changeMessage("Java is Fun");
        oMessageOne.displayMessage();
        System.exit(0);
    }
}

```



```

1. /* Show Box Program 5 - Multiple Objects */
2. import javax.swing.*;
3. public class ShowBox5
4. {
5.     private String sMessage = "Cards";
6.
7.     public void displayMessage()
8.     {
9.         JOptionPane.showMessageDialog(null,sMessage);
10.    }
11.    public void changeMessage(String sNewMsg)
12.    {
13.        sMessage = sNewMsg;
14.    }
15.    public static void main(String[] args)
16.    {
17.        ShowBox5 oMsg1, oMsg2, oMsg3;
18.        oMsg1 = new ShowBox5();
19.        oMsg2 = new ShowBox5();
20.        oMsg3 = new ShowBox5();
21.        oMsg1.displayMessage();
22.        oMsg1.changeMessage("Spades");
23.        oMsg2.displayMessage();
24.        oMsg2.changeMessage("Diamonds");
25.        oMsg3.changeMessage("Clubs");
26.        oMsg3.displayMessage();
27.        oMsg1.displayMessage();
28.        oMsg2.displayMessage();
29.        oMsg3.displayMessage();
30.        System.exit(0);
31.    }
32. }

```



```

1. /* Card Program - Better Card Output */
2. import javax.swing.*;
3. public class Card
4. {
5.     private String sOrder;
6.     private String sRank;
7.
8.     public void showCard()
9.     {
10.        JOptionPane.showMessageDialog(null, sRank,
11.            sOrder+" Card", JOptionPane.INFORMATION_MESSAGE);
12.    }
13.    public void setCard(String sNewOrder, String sNewRank)
14.    {
15.        sOrder = sNewOrder;
16.        sRank = sNewRank;
17.    }
18.    public static void main(String[] args)
19.    {
20.        Card oCard1, oCard2, oCard3;
21.        oCard1 = new Card();
22.        oCard2 = new Card();
23.        oCard3 = new Card();
24.        oCard1.setCard("1st", "4 \u2660");
25.        oCard2.showCard();
26.        oCard2.setCard("2nd", "K \u2666");
27.        oCard3.setCard("3rd", "A \u2665");
28.        oCard1.showCard();
29.        oCard2.showCard();
30.        oCard3.showCard();
31.        System.exit(0);
32.    }
}

```

