1 **import** javax.swing.\*;

2 **import** java.awt.event.\*;

3

4 **public** cla**s**s MenuBarBuilder **extends** JFrame

5 {

6 **//Menu item references**

7 **private** JMenuItem saladItem;

8 **private** JMenuItem chickenSoupItem;

9 **private** JMenuItem bLTSubItem;

10 **private** JMenuItem hamburgerSubItem;

11 **private** JMenuItem tacoSubItem;

12 **private** JMenuItem nachosSubItem;

13 **private** JMenuItem chiliSubItem;

14

15 **public** MenuBarBuilder(String title)

16 {

17 **super**(title);

18 setSize(303, 200);

19

20 **//Step 1: Create and add the menu bar to the JFrame**

21 JMenuBar menuBar = **new** JMenuBar();

22 setJMenuBar(menuBar);

23

24 **//Step 2: Create and add the menus to the menu bar**

25 JMenu dropDownMenu = buildDollarMenu();

26 menuBar.add(dropDownMenu);

27 }

28

29 **//Step 3: Create and add the items and the submenus to the menu**

30 public JMenu buildDollarMenu() **//Builds and returns the dollar menu**

31 {

32 **// Create the drop down menu**

33 JMenu dollarMenu = **new** JMenu("Dollar");

34

35 // Create the menu items and sub menus

36 saladItem = **new** JMenuItem("Salad");

37 chickenSoupItem = **new** JMenuItem("Chicken Soup");

38 JMenu sandwichSubMenu = **new** JMenu("Sandwich");

39 JMenu mexicanSubMenu = **new** JMenu("Mexican");

40

41 **// Add the menu items, submenus, and separators to the menu**

42 dollarMenu.add(saladItem);

43 dollarMenu.add(chickenSoupItem);

44 dollarMenu.addSeparator();

45 dollarMenu.add(sandwichSubMenu);

46 dollarMenu.addSeparator();

47 dollarMenu.add(mexicanSubMenu);

48

49 **// Create submenu items**

50 bLTSubItem = **new** JMenuItem("BLT");

51 hamburgerSubItem = **new** JMenuItem("Hamburger");

52 tacoSubItem = **new** JMenuItem("Taco");

53 nachosSubItem = **new** JMenuItem("Nachos");

54 chiliSubItem = **new** JMenuItem("Chili");

55

56 **// Add the submenu items to the submenus**

57 sandwichSubMenu.add(hamburgerSubItem);

58 sandwichSubMenu.add(bLTSubItem);

59 mexicanSubMenu.add(tacoSubItem);

60 mexicanSubMenu.add(nachosSubItem);

61 mexicanSubMenu.add(chiliSubItem);

62

63 **//Assign mnemonics to the menu items**

64 saladItem.setMnemonic('S');

65 chickenSoupItem.setMnemonic('C');

66 bLTSubItem.setMnemonic('B');

67 hamburgerSubItem.setMnemonic('H');

68 tacoSubItem.setMnemonic('T');

69 nachosSubItem.setMnemonic('N');

70 chiliSubItem.setMnemonic('L');

71

72 **// Register event handlers**

73 saladItem.addActionListener(new dollarMenuListener());

74 chickenSoupItem.addActionListener(new dollarMenuListener());

75 bLTSubItem.addActionListener(new dollarMenuListener());

76 hamburgerSubItem.addActionListener(new dollarMenuListener());

77 tacoSubItem.addActionListener(new dollarMenuListener());

78 nachosSubItem.addActionListener(new dollarMenuListener());

79 chiliSubItem.addActionListener(new dollarMenuListener());

80

81 **return** dollarMenu;

82 }

83

84 **public** **class** dollarMenuListener implements ActionListener

85 {

86 **public** **void** actionPerformed(ActionEvent e)

87 {

88 String entree = "";

89

90 **if**(e.getSource() == saladItem) entree = "Salad";

91 **if**(e.getSource() == chickenSoupItem) entree = "Chicken Soup";

92 **if**(e.getSource() == bLTSubItem) entree = "BLT Sandwich";

93 **if**(e.getSource() == hamburgerSubItem) entree = "Hamburger";

94 **if**(e.getSource() == tacoSubItem) entree = "Taco";

95 **if**(e.getSource() == nachosSubItem) entree = "Nachos";

96 **if**(e.getSource() == chiliSubItem) entree = "Chili";

97 System.out.println("Dollar Meal Entree: " + entree);

98 }

99 }

100 }

**Figure 12.14 The class MenuBarBuilder.**