1. Show how the double variables temp, weight, and age can be

declared in one statement.

// **declaration of double variables in one statement**  
 double temp, age, weight;

2. Show how the int variables months, days, and years may be

declared in one state

ment, with months initialized to 2 and years initialized to 3.

// **declaration of int variables in one statement**  
 int month = 2, days, years = 3;

3. Write assignment statements that perform the following operations

with the variables a, b, and c.

● Adds 2 to a and stores the result in b

● Multiplies b times 4 and stores the result in a

● Divides a by 3.14 and stores the result in b

● Subtracts 8 from b and stores the result in a

● Stores the character ‘K’ in c

● Stores the Unicode code for ‘B’ in c

int a;  
 int b;  
 char c;  
  
 // add 2 to a and store it b  
 int b = a + 2;  
 int a = b \* 4;  
  
 double b = a / 3.14;  
 double a = b - 8;  
 char c = "k";  
  
4**./\* Assume the variables result, w, x, y, and z are all integers, and that  
w = 5, x = 4, y = 8, and z = 2. What value will be stored in result in  
each of the following statements? a.result = x + y;  
b.result = z \* 2;  
c. result = y / x; d.result = y − z; e. result = w % 2;\*/**  
  
 int w = 5;  
 int x = 4;  
 int y = 8;  
 int z = 2;  
  
 // a.result = x + y; will give  
 int result = 12;  
  
 // b.result = z \* 2; will give  
 int result1 = 4;  
  
 // c. result = y / x; will give  
 int result2 = 2;  
  
 // d.result = y − z; will give  
 int result3 = 6;  
  
 // e. result = w % 2;  
 int result4 = 1;  
  
  
**5./\* How would each of the following numbers be represented in E  
notation? a. 3.287 × 106  
b. −9.7865 × 1012 c. 7.65491 × 10−3\*/**  
  
 // 3.287 × 106  
 double num = 3.287E6;  
  
 // b. −9.7865 × 1012  
 double num1 = -9.7865E12;  
  
 // c. 7.65491 × 10−3  
 double num2 = 7.65491E-3;  
  
  
6.**/\* Modify the following program so it prints two blank lines between  
each line of text.\*/**

public class  
  
 {  
 public static void main (String[]args){  
 System.out.println("Hearing in the distance. \n");  
 System.out.println("Two mandolins like creatures in the \n");  
 System.out.println("dark \n");  
 System.out.println("Creating the agony of ecstasy. \n");  
 System.out.println(" - George Barker \n");  
 System.out.println("Two mandolins like creatures in the \n");  
 System.out.println("dark \n");  
 System.out.println("Creating the agony of ecstasy. \n");  
 System.out.println(" - George Barker \n");  
 }  
 }

**7. /\* What will the following code output?  
int apples = 0, bananas = 2, pears = 10; apples += 10;  
bananas \*= 10;  
pears /= 10;  
System.out.println(apples + " " + bananas + " " + pears);\*/**  
 int apples = 10, banana = 20, pears = 1;  
  
 8. /\* What will the following code output?  
 double d = 12.9;  
int i = (int)d;  
System.out.println(i);\*/

int i = 12;  
  
 9.**/\* What will the following code output?  
 String message = “Have a great day!”;  
 System.out.println(message.charAt(5));\*/**

String message = "a";  
  
 10. **/\* What will the following code output?  
String message = "Have a great day!";  
System.out.println(message.toUpperCase());  
System.out.println(message);\*/**

String message1 = "HAVE A GREAT DAY!";  
  
 11. **/\* Convert the following pseudocode to Java code. Be sure to  
declare the appropriate variables.  
Store 20 in the speed variable.  
Store 10 in the time variable.  
Multiply speed by time and store the result in the distance variable.  
Display the contents of the distance variable.\*/**

int speed = 20;  
 int time = 10;  
 int distance = speed \* time;  
 System.out.println(distance);  
  
 12. **/\* Convert the following pseudocode to Java code. Be sure to  
declare the appropriate variables.  
Store 172.5 in the force variable.  
Store 27.5 in the area variable.  
Divide area by force and store the result in the pressure variable.  
Display the contents of the pressure variable.\*/**

double force = 172.5;  
 double area = 27.5;  
 double pressure = force \* area;  
 System.out.println(pressure);  
  
 13.  **/\* Write the code to set up all the necessary objects for reading  
keyboard input. Then write code that asks the user to enter his or  
her desired annual income. Store the input in a double variable.\*/**

import java.util.Scanner;  
 public class KeyboardInput {  
 Scanner scanner = new Scanner(System.in);  
  
  
 // Prompting the user to enter their desired annual income  
 System.out.println("Enter your desired annual income: ");  
  
 // Reading the user's input as a double  
 double annualIncome = scanner.nextDouble();  
  
 // Display the entered annual income  
 System.out.println("Your desired annual income is: " + annualIncome);

14.Write the code to display a dialog box that asks the user to

enter his or her desired annual income. Store the input in a double

variable.

Public class dialogBox{

String incomeStr = JOptionPane.showInputDialog("Please enter your desired annual income:");  
  
// Convert the input string to a double  
  
 double income = Double.parseDouble(incomeStr);  
 JOptionPane.showMessageDialog(null, "Your desired annual income is: " + income);

}

15.A program has a float variable named total and a double

variable named number. Write a statement that assigns number to

total without causing an error when compiled.

float total;

double number = 42.5;

total = (float) number;