**Exercise for Array**

Assume an array is declared as follows. Which of the following statements correctly

assigns the value 100 to each of the array elements?

int[] num = new int[4];

a. for(x = 0; x < 3; ++x) num[x] = 100;

b. for(x = 0; x < 4; ++x) num[x] = 100;

c. for(x = 1; x < 4; ++x) num[x] = 100;

d. for(x = 1; x < 5; ++x) num[x] = 100;

Suppose you have declared an array as follows:

int[] creditScores = {670, 720, 815};

What is the value of creditScores.length?

a. 0

b. 1

c. 2

d. 3

Write an application that prompts the user to make a choice for a pizza size—S, M, L,or X—and then displays the price as $6.99, $8.99, $12.50, or $15.00, accordingly.Display an error message if the user enters an invalid pizza size. Save the file as PizzaChoice.java.

Write an application that prompts a professor to enter grades for five different courses each for 10 students. Prompt the professor to enter data for one student at a time, including student ID and course data for five courses. Use prompts containing the number of the student whose data is being entered and the course number—for example, “Enter ID for student #s”, where s is an integer from 1 through 10, indicating the student, and “Enter course ID #n”, where n is an integer

from 1 through 5, indicating the course number. Verify that the professor enters

only A, B, C, D, or F for the grade value for each course. Save the file as

InputGrades.java.