B1) Done

B2) Done

B3) Done

B4) Done

B5)

1)

import java.util.Scanner;

/\*\*

This program computes the average and maximum of a set

of input values.

\*/

public class DataAnalyzer

{

public static void main(String[] args)

{

Scanner in = new Scanner(System.in);

double sum = 0;

double count = 0;

double maximum = 0;

boolean done = false;

for (int i = 0; i <= 1; i++)

{

if (i < 2 )

{

done = false;

}

while (!done)

{

System.out.print("Enter value, Q to quit: ");

String input = in.next();

if (input.equalsIgnoreCase("Q"))

done = true;

else

{

double x = Double.parseDouble(input);

sum = sum + x;

if (count == 0 || maximum < x) maximum = x;

count++;

}

}

double average;

if (count == 0) average = 0;

else average = sum / count;

System.out.println("Average = " + average);

System.out.println("Maximum = " + maximum);

}

}

}

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2)

import java.util.Scanner;

/\*\*

This program computes the average and maximum of a set

of input values.

\*/

public class DataAnalyzer

{

private static double sum;

private static double count;

private static double maximum;

public static void main(String[] args)

{

Scanner in = new Scanner(System.in);

sum = 0;

count = 0;

maximum = 0;

boolean done = false;

for (int i = 0; i<=1; i++)

{

if (i<2)

{

done = false;

}

while (!done)

{

System.out.print("Enter value, Q to quit: ");

String input = in.next();

if (input.equalsIgnoreCase("Q"))

done = true;

else

{

double x = Double.parseDouble(input);

add(x);

}

}

double average;

if (count == 0) average = 0;

else average = sum / count;

System.out.println("Average = " + average);

System.out.println("Maximum = " + maximum);

}

}

/\*\*

Adds a data value to the data set

@param x a data value

\*/

public static void add(double x)

{

sum = sum + x;

if (count == 0 || maximum < x) maximum = x;

count++;

}

/\*\*

Gets the average of the added data.

@return the average or 0 if no data has been added

\*/

public static double getAverage()

{

if (count == 0) return 0;

else return sum / count;

}

}

B6) Done

C1) Done

C2) Done

C3)

import java.util.Random;

/\*\*

This class models a die that, when cast, lands on a random

face.

\*/

public class Die

{

private static Random generator;

private static int sides;

/\*\*

Constructs a die with a given number of sides.

@param s the number of sides, e.g. 6 for a normal die

\*/

public Die(int s)

{

sides = s;

generator = new Random();

}

/\*\*

Simulates a throw of the die

@return the face of the die

\*/

public int cast()

{

return 1 + generator.nextInt(sides);

}

}

C4: