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ITM 311-02

Lab 07

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**Code**

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Program Name: ArrayProcessing.java

Programmer's Name: Erick Cabrera

Program Description: Manipulation of three arrays

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// include any necessary packages / libraries

import java.text.DecimalFormat;

// the class file

public class ArrayProcessing

{

// declare the global variables for the array indices

public static final int index = 10;

public static int count = 0;

// declare the three arrays

public static double[] priceArray =

{ 5.73, 11.77, 13.41, 14.25, 19.64,

8.37, 9.19, 19.44, 18.53, 12.04 };

public static int[] quantityArray =

{ 3, 9, 7, 8, 10, 12, 3, 6, 3, 5 };

public static double[] amountArray =

{ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 };

public static char[] statusArray = {'A' , 'B'};

// declare a decimal formatting object

static DecimalFormat df = new DecimalFormat("###,###.##");

// the main() method is defined

public static void main(String[] args)

{

// call the method named process()

process(priceArray, quantityArray);

// call the method named display()

display(priceArray, quantityArray);

}

// define the method named process()

static void process(double[] priceA, int[] quantityA)

{

// global arrays restored

priceArray = priceA;

quantityArray = quantityA;

// looping structure to perform the multiplication

for(count = 0; count < index; count++)

{

// body statement(s) for the looping structure

amountArray[count] = priceArray[count] \* quantityArray[count];

}

}

// define the method named display()

static void display(double[] prices, int[] quantities)

{

// global arrays restored

priceArray = prices;

quantityArray = quantities;

// output displayed

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

{

// body statement(s) for the looping structure

System.out.println(priceArray[i] + " \* " + quantityArray[i]

+ " = " + df.format(amountArray[i]));

}

for(int j = 0; j < index; j++){

if(amountArray[j] > 100){

System.out.println(statusArray[0]);

} else {

System.out.println(statusArray[1]);

}

} System.out.print(" ");

}

}//end the class

**Output**

