CS3B RASM1 Input – Data – Calculate

Write a well-documented program which will perform the below calculations after inputting 4 variables.

X = (A + B) – (C + D) where A, B, C, D are all **words** or **dwords** that are input by the user at run time. Name the program RASM1.s

When your program executes the below should be displayed (note indentation). I have bolded and underlined the information typed to either execute the program or to input the data values.

pi@raspberrypi:~/Documents/ CS 3B/RASM1 $ ./**RASM1**

Name: your name

Class: CS 3B

Lab: RASM1

Date: 8/23/2018

Enter a whole number: **100**

Enter a whole number: **200**

Enter a whole number: **300**

Enter a whole number: **400**

(100 + 200) – (300 + 400) = -400

The addresses of the 4 ints:

00404010 00404014 00404018 0040401C

pi@raspberrypi:~/Documents/ CS 3B/

If I ran the program a second time, entering different values

Name: your name

Class: CS 3B

Lab: RASM1

Date: 8/23/2018

Name: *your name*  
 Class: CSCI 2160  
 Lab: Proj1  
 Date: 9/22/2016

Enter a whole number: **120000**  
 Enter a whole number: -**25000000** Enter a whole number: -**38000000**  
 Enter a whole number: **2140387654**

(120,000 + -25,000,000) – (-38,000,000 +2,140,387,654) => -2,127,267,654

The addresses of the 4 ints:  
00404010 00404014 00404018 0040401C

pi@raspberrypi:~/Documents/ CS 3B/

Upload all of the files associated with this project (source, object code, and executable) along with a screen shot of the running the program with the above 2 listed sets of data.