**Question 1 (8 pts)**

Prompt the user to **enter three float numbers**, ***check if among them, a number is the sum of other two numbers*** or not, and print out a **YES/NO** message as below:

Sample Run:

Enter three float numbers: 13.5 40.7 27.2

A number is the sum of the others: YES

**Question 2 (8 pts)**

Write a program which keeps asking the user to input an even integer, then calculate and print out the sum of all even values from 0 to that number. The program stops when the user inputs an odd integer and print out an error message as below:

Sample Run:

Enter an even integer: 6

Sum of all even values from 0 to 6 is: 12

Enter an even integer: 10

Sum of all even values from 0 to 10 is: 30

Enter an even integer: 3

It is not an even integer.

Explanation: Sum of all even values from 0 to 10 is: 0 + 2 + 4 + … + 10 = 30

**Question 3 (9 pts)**

Write a program that prompts the user to **enter an integer between 1 and 10** inclusively. Then nicely displays a pattern as shown below.

**Enter a number (1 - 10): 10**

**10**

**9 10 9**

**8 9 10 8**

**7 8 9 10 7**

**6 7 8 9 10 5**

**5 6 7 8 9 10 4**

**4 5 6 7 8 9 10 3**

**3 4 5 6 7 8 9 10 2**

**2 3 4 5 6 7 8 9 10 1**

**1 2 3 4 5 6 7 8 9 10 9 8 7 6 5 4 3 2 1**