Intro to Python

Homework 6

Problem 1

Write a test program that accepts three sides for a triangle as user input and computes the area if the input is valid. Otherwise, it displays that the input is invalid.

Returns true if the sum of any two sides is greater than the third side. def isValid(side1, side2, side3):

Returns the area of the triangle. def area(side1, side2, side3):

Problem 2

Write a program that prompts the user to enter three numbers and invokes the following function to display them in increasing order.

def displaySortedNumbers(num1, num2, num3):

Problem 3

Write a program that converts an amount of money from one currency to another. You should construct 2 methods:

def amountPerDollar(currency):

this method takes in a string equal to either "usd" (US Dollar), "eur" (Euro), "jpy" (Japanese Yen), "chf" (Swiss Franc), "cny" (Chinese Yuan), or "inr" (Indian Rupee) and

returns a floating point for the conversion factor per dollar (e.g. amountPerDollar("eur")=0.85; Google the other values).

def converter(amount, currency1, currency2):

this method takes in a floating point amount, a string initial currency, and a string target currency. Call amountPerDollar on currency1 and currency2 and use the conversion factors to convert amount from the initial currency to the target.