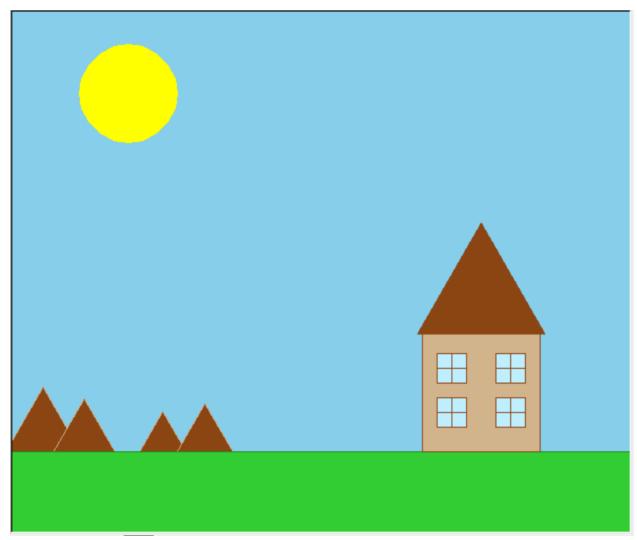
SI@UCF Python Homework Assignment: House

Draw a picture using turtle like the image below:



The picture must include:

- Sky background
- Land
- A sun
- Mountains
- A house with
 - o Four windows and
 - o A root

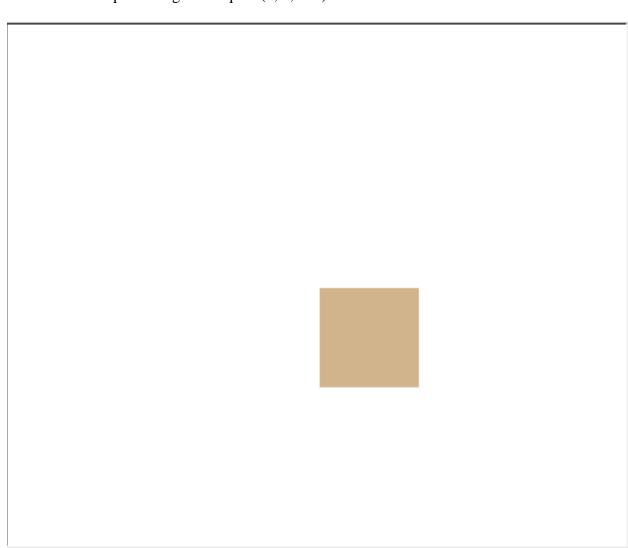
Complete this assignment using the required functions below, but you may add any helper functions.

Function: drawSquare

def drawSquare(x, y, sideLength):

Draw solid square axis aligned with top left corner at (x, y) coordinate with side length sideLength.

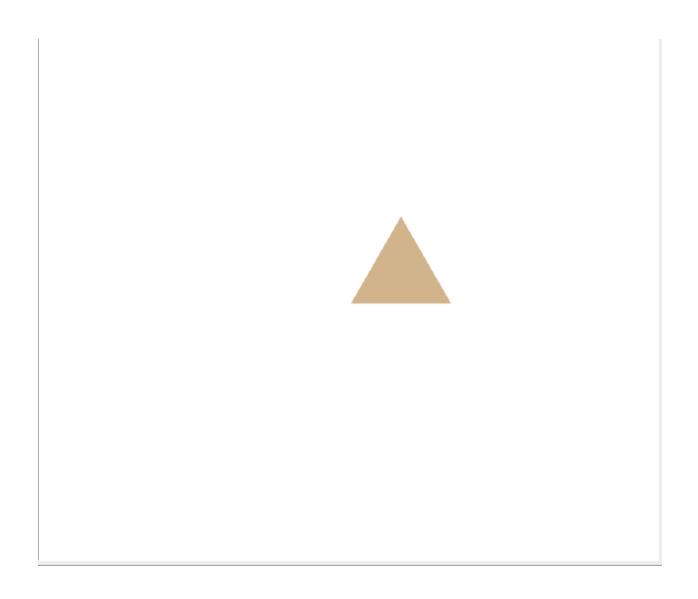
An example calling drawSquare(0, 0, 100)



Function: drawTriangle

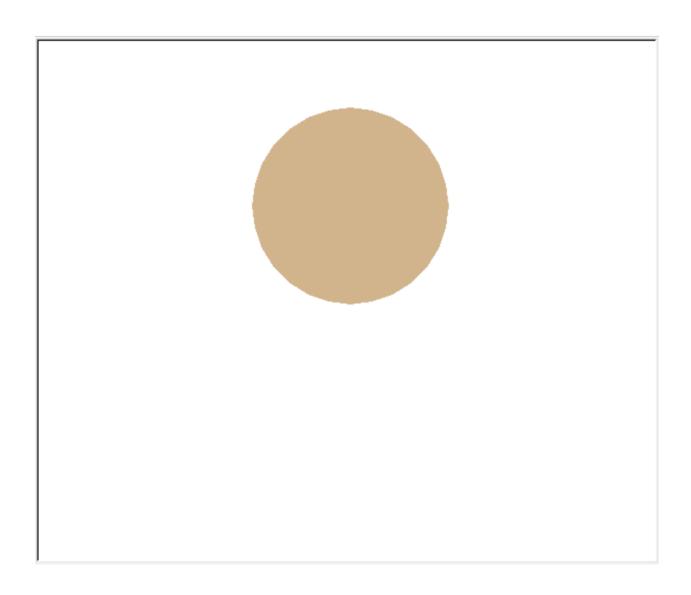
def drawTriangle(x, y, sideLength):

Draw a solid equilateral triangle starts at (x, y) coordinate with side length sideLength, and set heading (or the direction it is facing when starts) to the given orientation An example calling drawTriangle(0, 0, 100)



Function: drawCircle def drawCircle(x, y, radius):

Draw a solid circle with given (x, y) and radius Note: turtle has a circle() function An example calling: drawCircle(0, 0, 100)

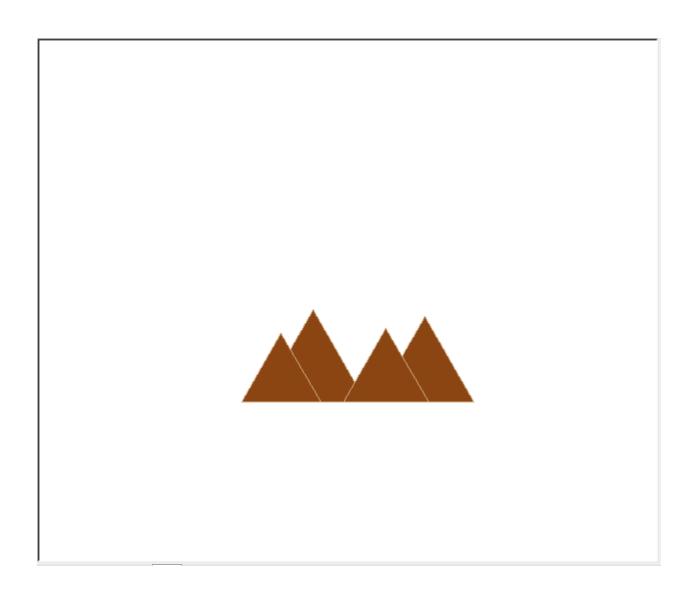


Function: drawMountains

def drawMountains(num, x, y, minSize, maxSize):

draw a group of equilateral triangles by calling drawTriangle() num times starts at (x, y) coordinates

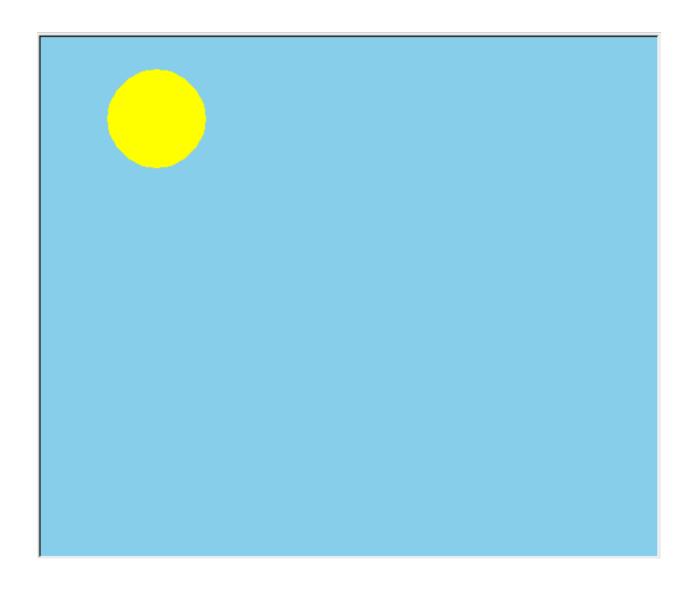
the side length of the triangle is in the range between minSize and maxSize An example calling drawMountains(4, -200, -100, 80, 120)



Function: drawSky

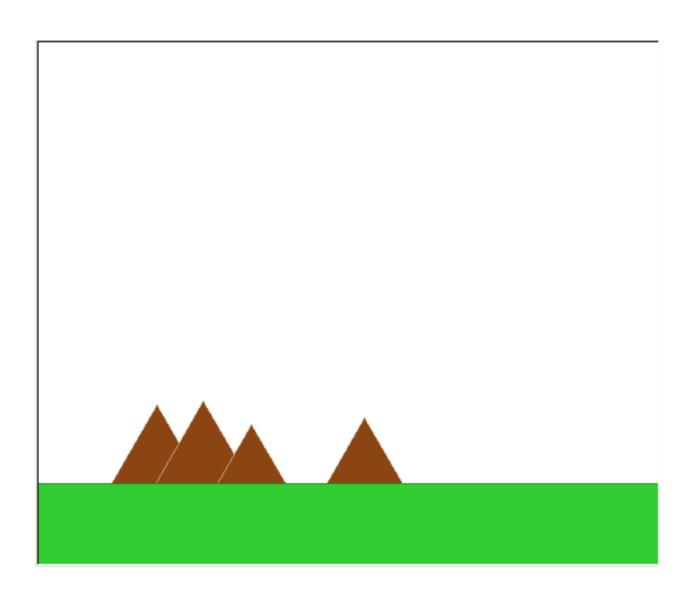
def drawSky():

draw a sky color background and a sun on top of the blue background. Use functions created above An example calling drawSky()



Function: drawLandscape def drawLandscape(): draw mountains and lands

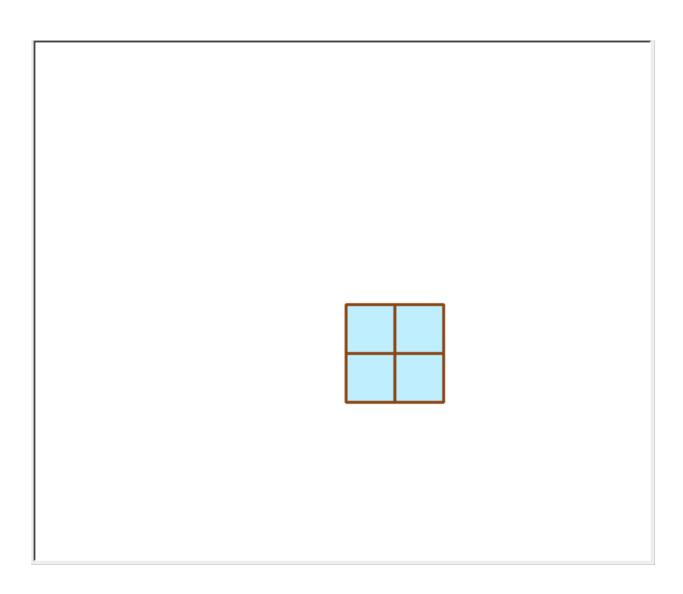
use functions created above an example calling drawLandscape()



Function: drawWindow

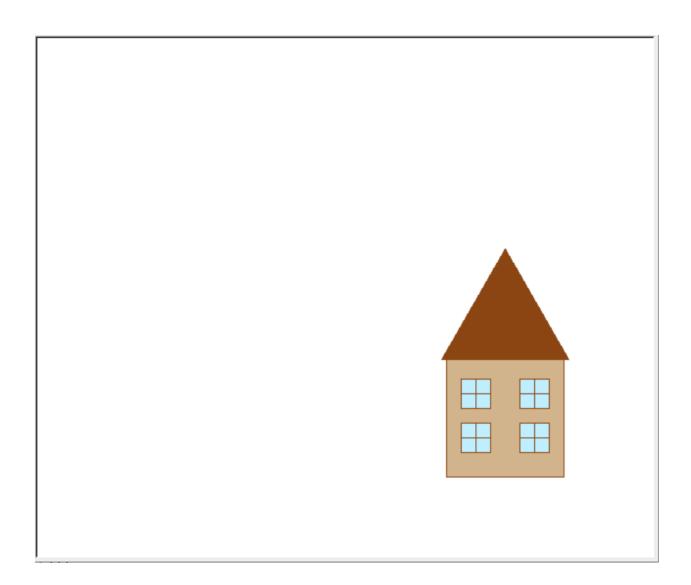
def drawWindow(x, y, size):

Drawing a window with frame An example drawWindow(0, 0, 100)



Function: drawHouse def drawHouse():

draw a house with triangle roof and windows An example calling drawHouse()



Function: main

def main():

Call functions to draw sky, landscape and house.