CS100 Fall 2018

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CPADS Lab Activity #4

 Open Pycharm making sure to select the Python 3.x interpreter. Create a new project named CS100-Lab4. Right click on CS100-Lab4 in the left sidebar and select New->Python File. Name the file layerCake. Type the following code exactly as shown copying the drawSquareFromCenter() function code from pinwheel.py in CS100-Lab3

```
import turtle

def drawSquareFromCenter(turtle,x):...

def main():
    # Create turtle
    bob = turtle.Turtle()

# Get user input
    size1 = int(input('Enter size for the top square: '))

# Draw graphics
    drawSquareFromCenter(bob,size1)

# Press any key to exit
    input()

main()
```

The program should prompt the user to enter a size for the first square draw it centered about the origin.

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2. Write code using **drawSquareFromCenter(x)** to construct the following layer cake figure *assuming the cursor begins as shown*. The top block should be the size entered by the user, the next block should be twice as big, the next block should be three times as big, and the bottom block should be four times as big as the top block. All blocks should be centered on each other and the cursor should be returned to its original position *using computations*. **There should be no computations in drawing commands, use intermediate variables for calculated values**.

Hint: Consider how the cursor must move in between drawing each layer.

