Name _____

CPADS Lab Activity #3

1. Open Pycharm making sure to select the Python 3.5 interpreter. Create a new project named **CS100-Lab3**. Right click on **CS100-Lab3** in the left sidebar and select **New->Python File**. Name the file **pinwheel.py**. Type the following code **exactly** as shown

```python
import turtle

def drawSquareFromCenter(turtle,x):
    turtle.penup()
    turtle.forward(-x/2)
    turtle.right(90)
    turtle.forward(x/2)
    turtle.left(90)
    turtle.pendown( )
    turtle.forward(x)
    turtle.left(90)
    turtle.forward(x)
    turtle.left(90)
    turtle.forward(x)
    turtle.left(90)
    turtle.forward(x)
    turtle.left(90)
    turtle.penup( )
    turtle.forward(x/2)
    turtle.left(90)
    turtle.forward(x/2)
    turtle.right(90)

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

    # Draw graphics
    drawSquareFromCenter(bob,200)

    # Press any key to exit
    input()

main()
```

Execute your program by selecting **Run->Run->pinwheel.** You should see a window open up and a turtle draw a square returning to the center. Hit any key in the bottom pane of Pycharm to close the program.

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2. **Add/modify code in main()** as necessary in the **# Draw Graphics** section using **drawSquareFromCenter(x)** to construct the following pinwheel (assume the squares are sizes 40, 80, 120, 160).

   Hint: ***USE ONE OF YOUR STRATEGIES FROM LAB ACTIVITY 1! BE SURE TO COMMENT YOUR CODE!!!***