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1  #Quilt Pattern One
2  #First pattern for the Python quilt. Will make four sections of a
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4  #Date: September 14, 2018
5
6  #import turtle
7  from TallTower5 import *
8  set up turtle window
9  turtle.setup(800,800)
10 speed up turtle
11 turtle.speed(0)
12 define one rectangle shape
13 def drawRectangle(turtle, w, h):
14     for i in range(2):
15         turtle.forward(w)
16         turtle.left(90)
17         turtle.forward(h)
18         turtle.left(90)
19 #define a set of rectangles, there will be four per set
20 def drawRectangleSet(turtle, color1, color2, color3, color4):
21     for i in range(1):
22         #navy rectangle
23         turtle.color('light grey', color1)
24         turtle.begin_fill()
25         drawRectangle(turtle, (blockSize / 8), (blockSize / 2))
26         turtle.end_fill()
27         turtle.pu()
28         turtle.forward(blockSize / 8)
29         turtle.pd()
30         #blue rectangle
31         turtle.color('light grey', color2)
32         turtle.begin_fill()
33         drawRectangle(turtle, (blockSize / 8), (blockSize / 2))
34         turtle.end_fill()
35         turtle.pu()
36         turtle.forward(blockSize / 8)
37         turtle.pd()
38         #yellow rectangle
39         turtle.color('light grey', color3)
40         turtle.begin_fill()
41         drawRectangle(turtle, (blockSize / 8), (blockSize / 2))
42         turtle.end_fill()
43         turtle.pu()
44         turtle.forward(blockSize / 8)
45         turtle.pd()
46         #light yellow rectangle
47         turtle.color('light grey', color4)
48         turtle.begin_fill()
49         drawRectangle(turtle, (blockSize / 8), (blockSize / 2))
50         turtle.end_fill()
51 #define final pattern, adding outside frame
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52 def drawWeavePattern1(turtle, blockSize):
53     turtle.pencolor('light grey')
54     drawFourSideShape(turtle, blockSize, blockSize)
55     for i in range(0,4):
56         if i == 0:
57             turtle.seth(270)
58             turtle.forward(blockSize / 2)
59             turtle.seth(0)
60             drawRectangleSet(turtle, '#581845', '#900C3F', '#C70039',
61                             '#FF5733')
62             turtle.forward(blockSize / 8)
63         elif (i == 1):
64             turtle.pu()
65             turtle.seth(270)
66             turtle.forward(blockSize / 2)
67             turtle.seth(0)
68             turtle.pd()
69             drawRectangleSet(turtle, '#581845', '#900C3F', '#C70039',
70                             '#FF5733')
71         elif (i == 2):
72             turtle.pu()
73             turtle.backward((blockSize / 8) * 3)
74             turtle.seth(90)
75             turtle.forward(blockSize)
76             turtle.seth(270)
77             turtle.pd()
78             drawRectangleSet(turtle, '#581845', '#900C3F', '#C70039',
79                             '#FF5733')
80         else:
81             turtle.pu()
82             turtle.forward(blockSize / 8)
83             turtle.seth(0)
84             turtle.backward(blockSize / 2)
85             turtle.seth(270)
86             turtle.pd()
87             drawRectangleSet(turtle, '#581845', '#900C3F', '#C70039',
88                             '#FF5733')
89     blockSize = 90
90     turtle.width(2)
91     drawWeavePattern1(turtle, blockSize)
92     turtle.exitonclick()
```