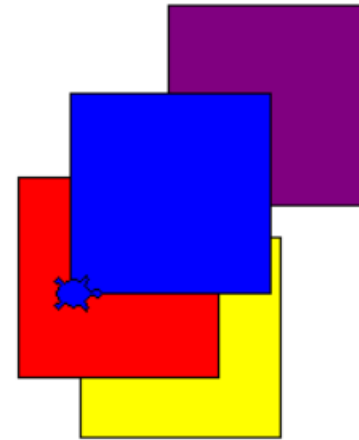Python Turtle Graphics

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9장 연습문제.py - C:\Users\82107\Desktop\9장 연습문제.

File   Edit   Format   Run   Options   Window   Help

```python
import turtle
import random
t= turtle.Turtle()
t.shape("turtle")

def draw_square(x, y, c):
    t.up()
    t.goto(x,y)
    t.down()
    t.color("black", c)
    t.begin_fill()
    t.forward(100)
    t.left(90)
    t.forward(100)
    t.left(90)
    t.forward(100)
    t.left(90)
    t.forward(100)
    t.left(90)
    t.end_fill()

for c in ["yellow", "red", "purple", "blue"]:
    x = random.randint(-100, 100)
    y = random.randint(-100, 100)
    draw_square(x, y, c)
```
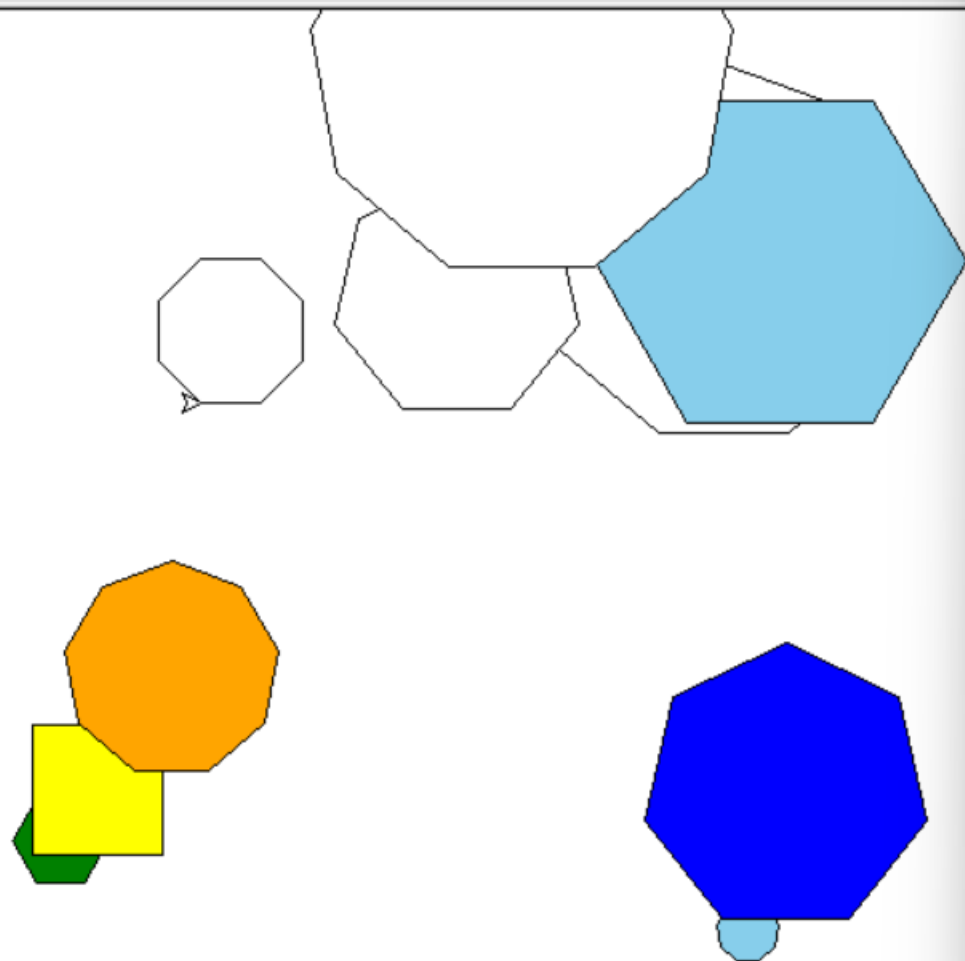
rtle Graphics

9장 연습문제.py - C:\Users\82107\Desktop\9장 연습문제.py (3.10.6)

File Edit Format Run Options Window Help

```python
import turtle
import random

t= turtle.Turtle()
s= turtle.Screen()


def draw_shape(t, c, length, sides, x, y):
    t.up()
    t.goto(x, y)
    t.down()
    t.fillcolor(c)
    angle = 360.0 / sides
    t.begin_fill()
    for dist in range(sides):
        t.forward(length)
        t.left(angle)
    t.end_fill()

for i in range(10):
    color = random.choice([ 'white', 'yellow', 'blue', 'skyblue', 'orange', 'green'
    side_length = random.randint(10, 100)
    sides = random.randint(3, 10)
    x = random.randint(-200, 200)
    y = random.randint(-200, 200)
    draw_shape(t, color, side_length, sides, x, y)
```

Ln: 1 Col: 0

9장 연습문제.py - C:₩Users₩82107₩Desktop₩9장 연습문제.py (3.10.6)

File   Edit   Format   Run   Options   Window   Help

```python
import turtle
import random

t= turtle.Turtle()
s= turtle.Screen()
s.bgcolor("black")


def draw_star(aturtle, colour, side_length, x, y):
 aturtle.color(colour)
 aturtle.begin_fill()
 aturtle.penup()
 aturtle.goto(x, y)
 aturtle.pendown()
 for i in range(5):
   aturtle.forward(side_length)
   aturtle.right(144)
   aturtle.forward(side_length)
 aturtle.end_fill()


for i in range(20):
 color = random.choice([ 'white', 'yellow', 'blue', 'skyblue', 'orange', 'green'
 side_length = random.randint(10, 100)
 x = random.randint(-200, 200)
 y = random.randint(-200, 200)
 draw_star(t, color, side_length, x, y)
```