

More Nested Loops

Enter the code below and watch what happens.

```
1 import turtle
2 t = turtle.Turtle()
3 t.speed(10)
4 petals=6
5 d=30
6 for cycle in range (1,petals+1):
7     for a in range (1,d+1):
8         t.forward(10)
9         t.right(360/d)
10    t.right(360/petals)
11 t.penup()
12 t.forward(300)
```

After you run the program, experiment with the values in lines 3, 4, and 5. Watch what happens carefully and try to determine how and why the variables affect the resultant image.

Here is another one to try.

```
1 import turtle
2
3 t = turtle.Turtle()
4 t.speed(30)
5 size=15
6 for cycle in range(1,10):
7     for a in range (1,7):
8         t.left(60)
9         t.forward(size+cycle*2)
10    t.right(120)
11    t.forward(size+cycle*2)
12 t.penup()
13 t.forward(300)
```

Once again, experiment with the values in each line and watch the results carefully.