ЧЕРЕПАШКА 1

**import** **turtle**

turtle.shape('turtle')

turtle.forward(50)

turtle.left(90)

turtle.forward(50)

turtle.left(90)

turtle.forward(50)

turtle.right(90)

turtle.forward(50)

turtle.right(90)

turtle.forward(50)

**import** **turtle**

turtle.shape('turtle')

i = 0

**while** i < 4:

i += 1

turtle.forward(150)

turtle.left(90)

**import** **turtle**

turtle.shape('turtle')

i = 360

**while** i > 0:

i -= 1

turtle.forward(3)

turtle.left(1)

**import** **turtle**

turtle.shape('turtle') ## (готовое упражнение 8 , квадратная спираль)

i = 0

k = 10

**while** i < 40:

i += 1

k += 10

turtle.forward(k)

turtle.left(90)

**import** **turtle**

turtle.shape('turtle')

turtle.penup()

turtle.goto(-300, -300)

turtle.pendown()

k = 0

while k < 10:

i = 0

**while** i < 4:

i += 1

turtle.forward((300 – (60\*k)))

turtle.left(90)

turtle.penup()

turtle.forward(30)

turtle.left(90)

turtle.forward(30)

turtle.right(90)

turtle.pendown()

k += 1

**import** **turtle**

turtle.shape('turtle')

i = 12

**while** i > 0:

i -= 1

turtle.forward(150)

turtle.stamp()

turtle.backward(150)

turtle.right(30)

**import** **turtle**

turtle.shape('turtle')

i = 0

**while** i < 2000:

i -= 1

turtle.forward((i/400))

turtle.right(1)

**import** **turtle**

turtle.shape('turtle')

turtle.forward(150)

turtle.left(120)

turtle.forward(150)

turtle.left(120)

turtle.forward(150)

turtle.left(120)

**import** **turtle**

**import** **numpy** **as** **np**

turtle.shape('turtle')

k = 3

while k < 10:

i = k

**while** i > 0:

i -= 1

turtle.left((360 / k))

turtle.forward(100+((k-3)\*20))

turtle.penup()

turtle.forward(10)

turtle.right(90)

turtle.forward(20)

turtle.left(90)

turtle.pendown()

k += 1