# **Name: Abdurrahman Qureshi**

# **Roll No: 242466**

Practical No: 2

**Q) Draw a circle in python via Turtle**

CODE:

import turtle

canvas = turtle.Screen()

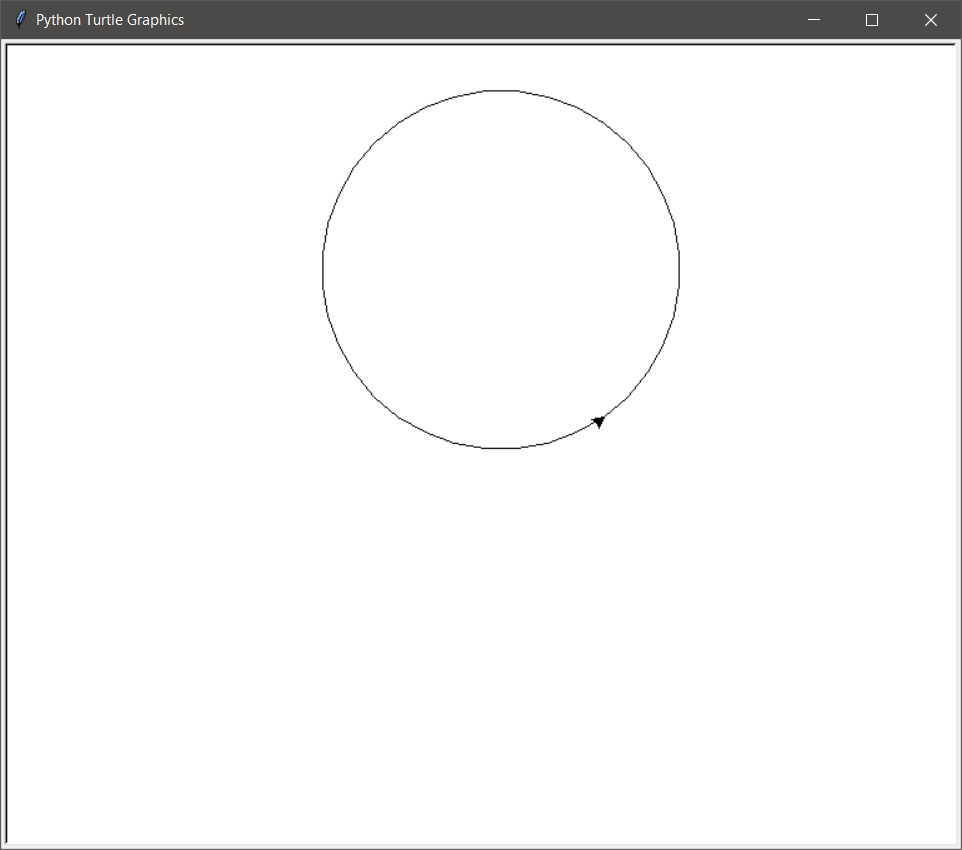
gt = turtle.Turtle()

for i in range(40):

gt.forward(25)

gt.left(10)

OUTPUT:



**Q) Draw a filled circle in python via Turtle**

CODE:

import turtle

pen = turtle.Turtle()

pen.begin\_fill()

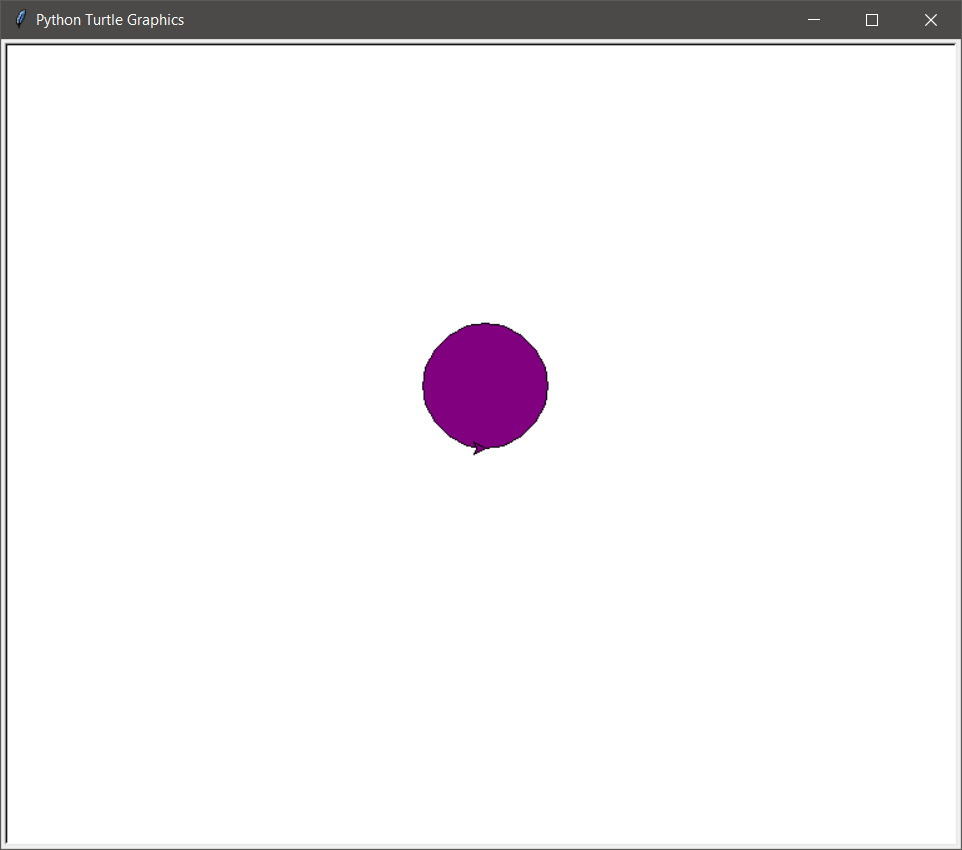
pen.fillcolor("purple")

pen.circle(50)

pen.end\_fill()

turtle.done()

OUTPUT:



**Q) Draw nested circles in python via Turtle**

CODE:

import turtle

canvas = turtle.Screen()

pen = turtle.Turtle()

for i in range(5):

for j in range(40):

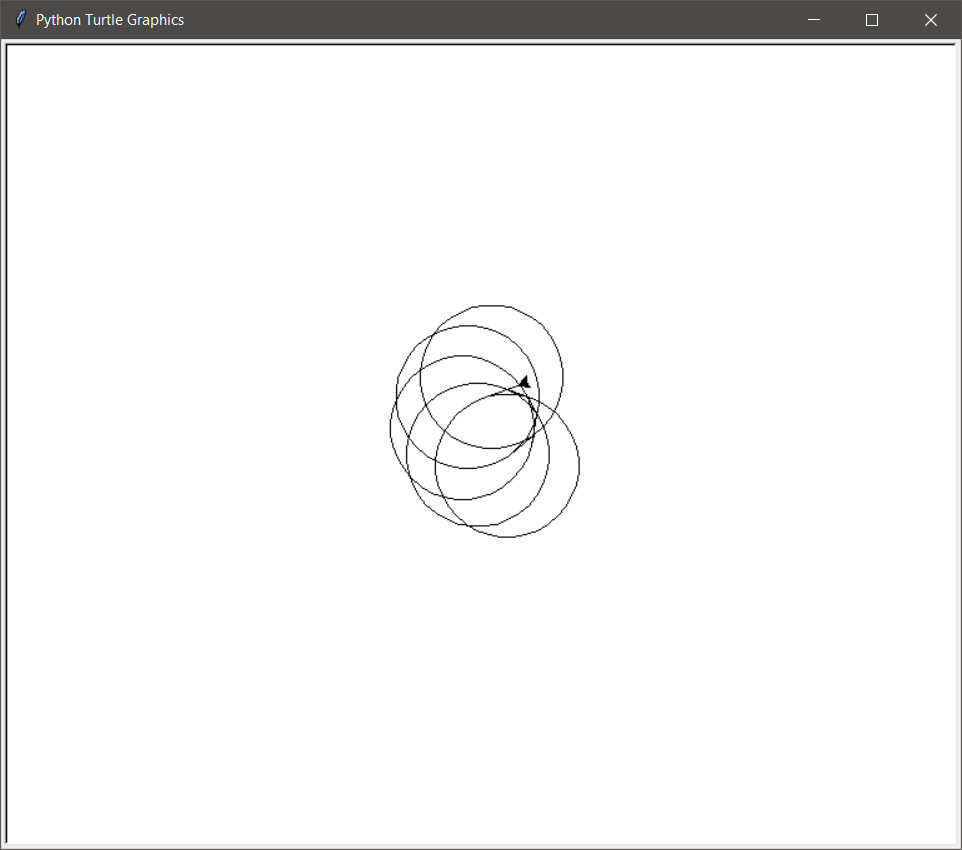
pen.forward(10)

pen.left(10)

pen.forward(-25)

pen.done()

OUTPUT:



**Q) Draw rectangle without loop in python via Turtle**

CODE:

import turtle

pen = turtle.Turtle()

pen.left(90)

pen.fd(100)

pen.right(90)

#pen.left(90)

pen.fd(200)

pen.right(90)

#pen.left(90)

pen.fd(100)

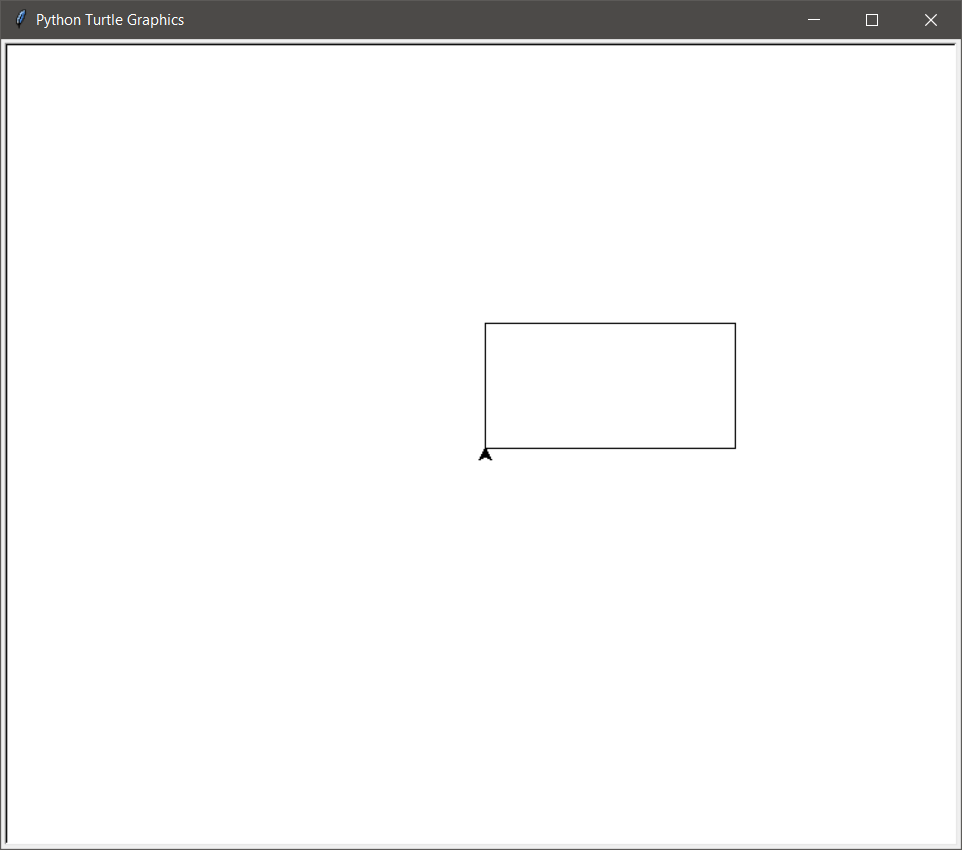
pen.right(90)

#pen.left(90)

pen.fd(200)

pen.right(90)

OUTPUT:



**Q) Draw rectangle with loop in python via Turtle**

CODE:

import turtle

pen = turtle.Turtle()

for i in range(2):

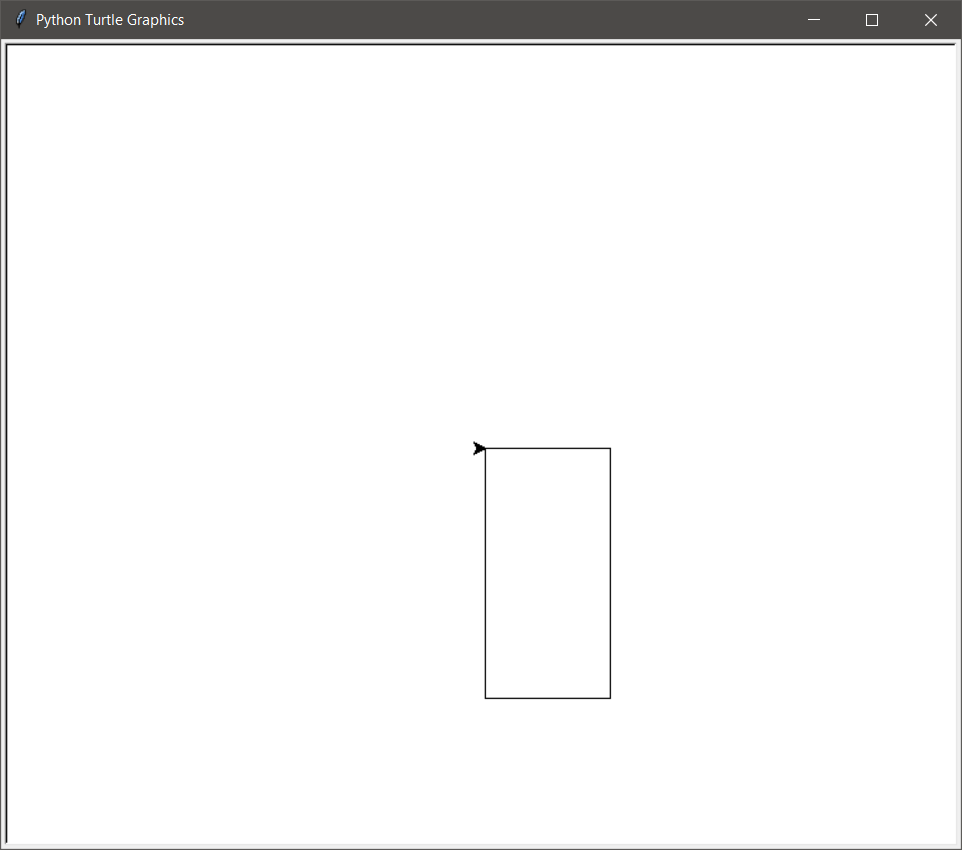
pen.fd(100)

pen.right(90)

pen.fd(200)

pen.right(90)

OUTPUT:



**Q) Draw a hexagon in python via Turtle**

CODE:

import turtle

canvas = turtle.Screen()

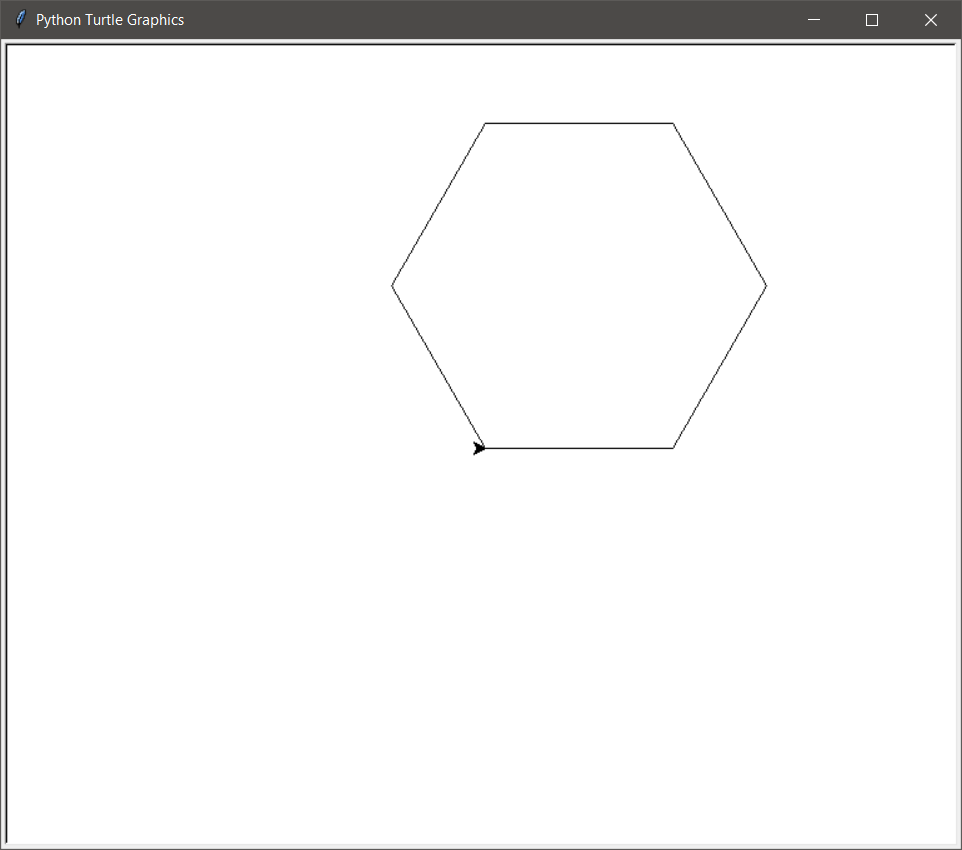
x = turtle.Turtle()

for i in range(6):

x.forward(150)

x.left(60)

OUTPUT:



**Q) Draw pattern using shapes of Pentagon ,Hexagon ,Octagon , Nonagon and Decagon in python Turtle**

CODE:

import turtle

pen = turtle.Turtle()

pen.speed(100)

for i in range(5):

pen.fd(90)

pen.right(-72)

pen.right(108)

pen.fd(100)

for i in range(6):

pen.fd(75)

pen.right(60)

pen.fd(200)

for i in range(8):

pen.fd(50)

pen.right(45)

pen.right(210)

pen.fd(200)

for i in range(9):

pen.fd(40)

pen.right(40)

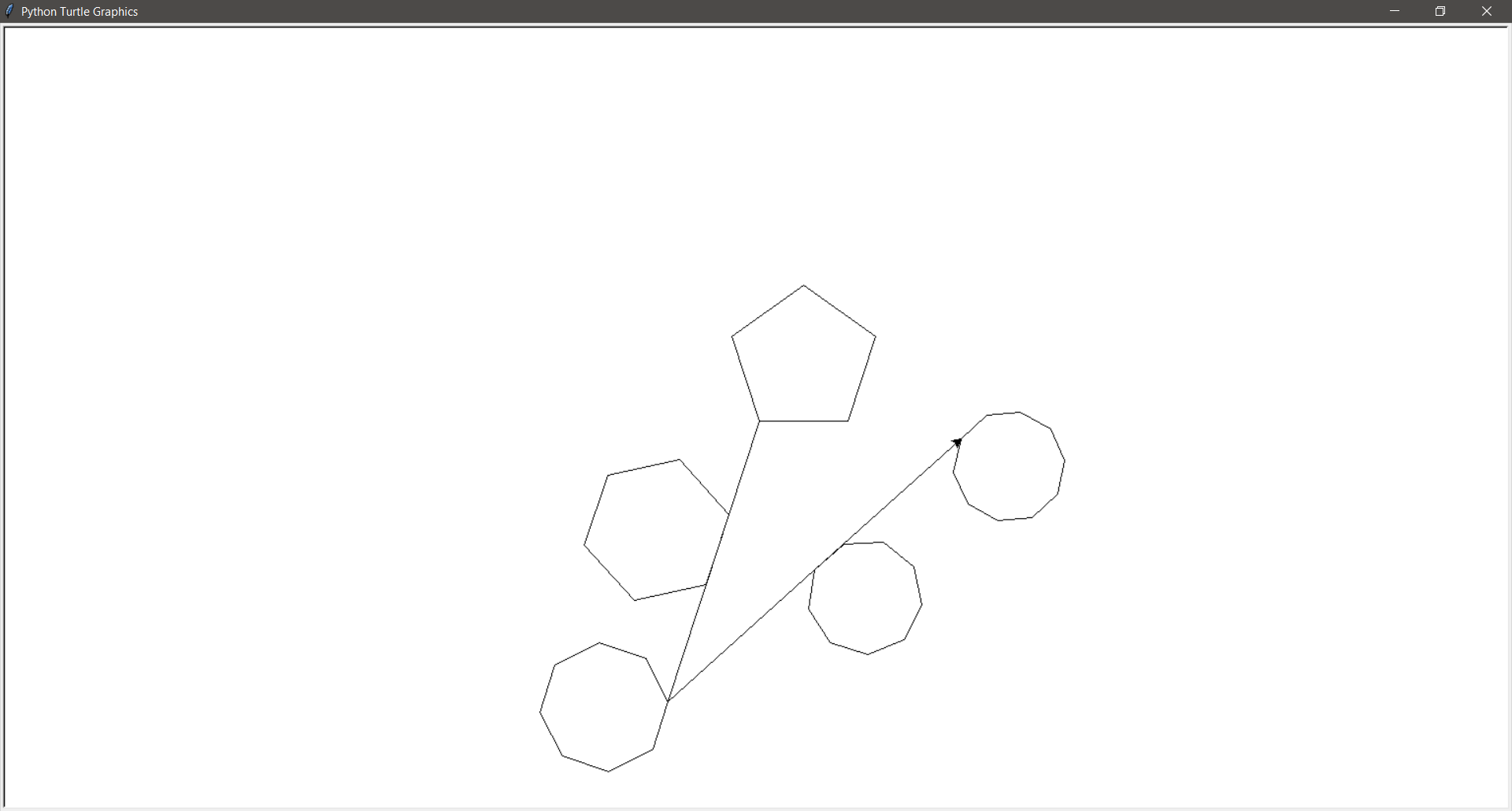
pen.fd(200)

for i in range(10):

pen.fd(35)

pen.right(36)

OUTPUT:



**Q) Generate any one pattern of your choice using python turtle**

CODE:

import turtle

import random

x = turtle.Turtle()

colors = ["red","green","yellow","blue","purple"]

x.pensize(5)

for i in range(6):

for j in range(6):

x.forward(50)

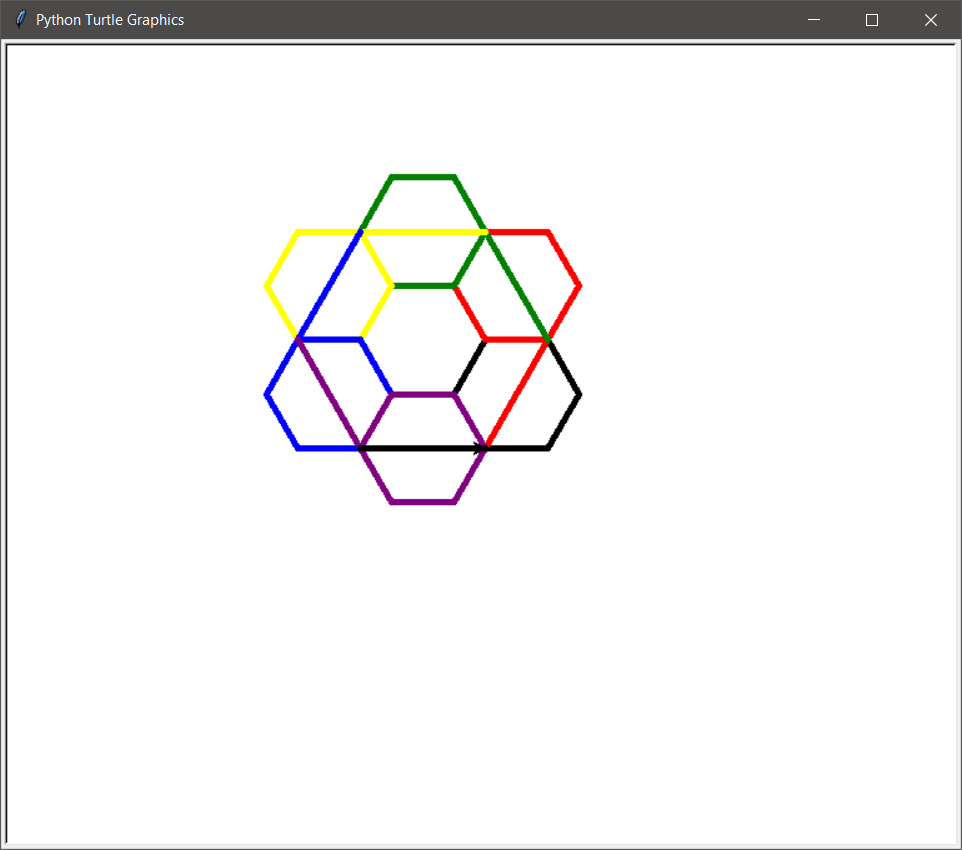
x.left(60)

x.color(random.choice(colors))

x.left(60)

x.forward(100)

OUTPUT:



**Q) What is the output of programs TurSpirography.py and turSpiral.py uploaded on G class room [ Explain the code in your own words]**

SPIRAL - CODE:

import turtle,random

t = turtle.Turtle()

t.pensize(5)

t.speed(10000)

for i in range (5):

for col in ['red','magenta','blue','yellow','green','purple','cyan','pink']:

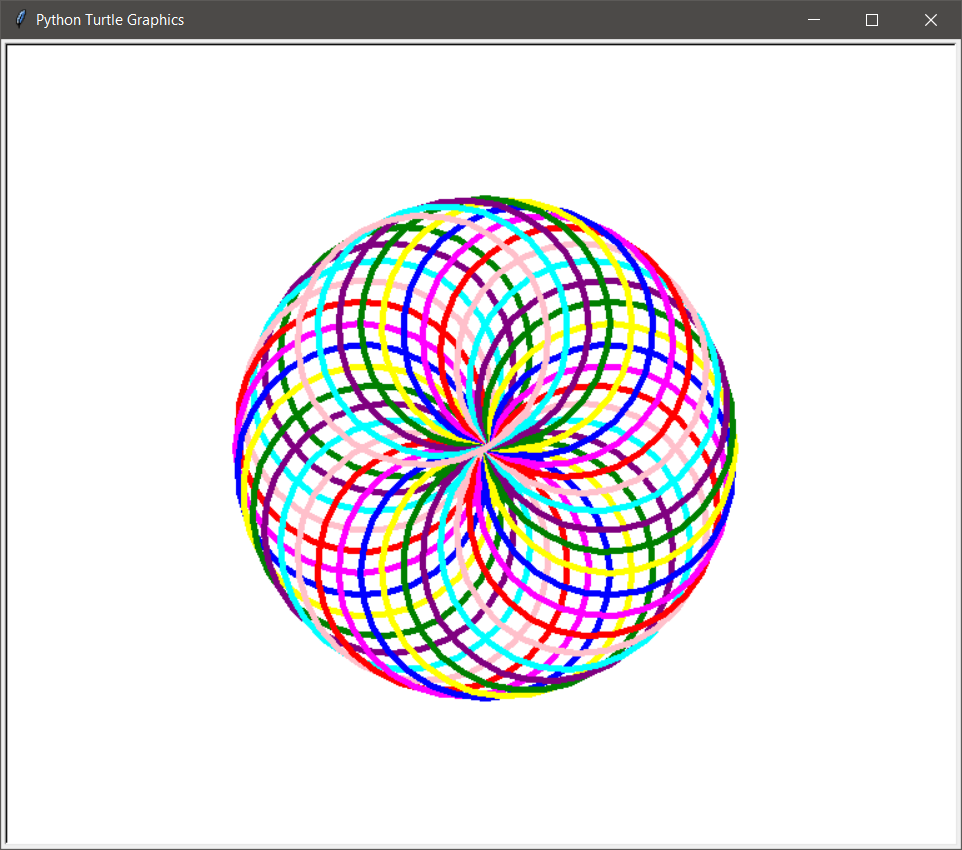
t.color(col)

t.circle(100)

t.left(10)

turtle.done()

OUTPUT:



SQUARE - CODE:

import turtle,random

t = turtle.Turtle()

t.pensize(5)

t.speed(500)

n=10

col =['red','magenta','blue','yellow','green','purple','cyan','pink']

for i in range (n\*4):

t.color(random.choice(col))

t.fd(i\*10)

t.rt(90)

turtle.done()

OUTPUT:

