3.04 Creating Methods

Pseudocode:

Import turtle

Draw hat function(x, y, size)

       Set position(x, y)

       Color light blue

       Begin fill

       For loop 3

              Forward(size)

              left(120)

       End fill

Draw head function

       Pen up

       Set position(x, y)

       Pen down

       Color khaki

       Begin fill

       Circle size

       End fill

Draw eye function

Pen up

Set position(x, y)

Pen down

Color dark cyan

Begin fill

circle(size)

End fill

Draw nose function

Pen up

Set position(x, y)

Pen down

Color peru

Right 90

Pen size 40

Forward 25

Right 90

Circle 10, -195

Draw smile function

Pen up

Set position(x, y)

Pen down

Color peru

Right 90

circle(40, 180)

Main function

Define turtle

Print Wizard Man

Reference all functions

Code:

#Cole Current

#12/14/19

#Draw a wizard's face

import turtle


```python
def drawHat(cole, x, y, size):
    cole.penup()
    cole.setpos(x, y)
    cole.pendown()
    cole.color("light blue")
    cole.begin_fill()
```

```python
    for index in range(3):

        cole.forward(size)

        cole.left(120)

    cole.end_fill()


def drawHead(cole, x, y, size):

    cole.penup()

    cole.setpos(x, y)

    cole.pendown()

    cole.color("khaki")

    cole.begin_fill()

    cole.circle(size)

    cole.end_fill()


def drawEye(cole, x, y, size):

    cole.penup()

    cole.setpos(x, y)

    cole.pendown()

    cole.color("dark cyan")

    cole.begin_fill()

    cole.circle(size)

    cole.end_fill()
```

```python
def drawNose(cole, x, y):

    cole.penup()

    cole.setpos(x, y)

    cole.pendown()

    cole.color("peru")

    cole. right(90)

    cole.pensize(4)

    cole.forward(25)

    cole.right(90)

    cole.circle(10, -195)


def drawSmile(cole, x, y):

    cole.penup()

    cole.setpos(x, y)

    cole.pendown()

    cole.color("peru")

    cole.right(90)

    cole.circle(40, 180)


def main():

    cole = turtle.Turtle()
```

```
    print("Wizard Man")

    drawHat(cole, -70, 30, 140)

    drawHead(cole, 0, -100, 75)

    drawEye(cole, -25, -15, 10)

    drawEye(cole, 25, -15, 10)

    drawNose(cole, 0, 0)

    drawSmile(cole, -35, -40)


main()
```

Post Mortem Review:

What was the purpose of your program?

 To draw a face using turtle graphics

How could you program be useful in the real world?

It could be use to make digital art

What is a problem you ran into and how did you fix it?

 I didn't put the ending part of the main function (main()) and the program did not run

Describe one thing you would do differently the next time you write a program.

I would define the main function first and then create the functions one by one