```
import turtle                   # need to use this to start the turtle code


turtle.forward(distance)        # move turtle forward
turtle.fd(distance)
turtle.back(distance)           # move turtle backwards
turtle.bk(distance)
turtle.right(angle)             # turn turtle right
turtle.rt(angle)
turtle.left(angle)              # turn turtle left
turtle.lt(angle)
turtle.penup()                  pick the pen up and stop drawing
turtle.pendown()                put the pen down and start drawing
turtle.color( 'colour name')    # colour name: red, yellow, orange, green, blue, cyan, magenta,
                                # indigo, violet, black, grey
                                # may also be a RRGGBB Hex number such as #F0D4A7
turtle.clear()                  # clear the screen
turtle.reset()                  # reset the turtle and clear the screen
turtle.undo()                   # undo one step on the turtle
turtle.speed( velocity )        # how fast you want to move the turtle (1 slow, 100 fast)
turtle.home()                   # move the turtle back to the 0,0 position
turtle.setheading( degrees)     # turn the turtle to face a particular direction. 0 East, 90 North,
                                # 180 West, 270 South
turtle.pensize( width )         # set width of pen
turtle.width( width )
turtle.hideturtle()             # Invisible turtle
turtle.shape( 'turtleshape')    # change tutleshape to 'classic' or  'turtle'
```

More commands: https://docs.python.org/3.3/library/turtle.html

```
fred = Turtle()                 # Create a turtle called Fred
fred.forward(70)                # Move Fred forward by 70 units
```

```
for counter in range(10):
    turtle.forward(100)
    turtle.rt(36)              # draw a decagon (10 sided shape)

for count in range(50):
    turtle.undo()              # This will undo fifty steps made by the turtle
```

Octagon is 8 sided shape	360 degrees in a full turn
	So 360 / 8 = 45 degrees turn for each side
Triangle is 3 sided	Turn by 360 / 3 = 120 degrees
Hexagon is 6 sided	Turn by 360 / 6 = 60 degrees
Pentagon is 5 sided	Turn by 360 / 5 = 72 degrees

How could you draw a circle?

Exercise:

Draw an Indigo triangle

Exercise:

Draw the following shapes in a line (with no line shown between each shape):

- a triangle (red),
- a square (blue),
- a pentagon (green)

Exercise

On paper plot out a “squared” version of your initials.

Now write the Python turtle steps to draw your initials in a line on screen.