Engineering Design Semester 1 Final Review:

- 1. Construct an assembly of my scotch tape dispenser in Onshape to the best of your abilities. Add a notch to the tape roll so we can see it rotate. There should be 3 separate part files, one assembly, and one drawing file. The drawing should contain at least 3 different view tools.
- 2. Complete the table below:

Component Name:	What does this component do?	How does it work?
Potentiometer		
DC Motor		
0.5		
Servo		
Transistor		
	ı	1

Flyback Diode	
Relay	
Shift Register	
Capacitor	

GCode Questions:

	G20 G90 G0 X0 Y0 Z5 M0 M3 S5000 M0
	G1 X0 Y0 Z-2 G2 X0 Y-100 i0 j-50 G1 X0 Y0 G0 Z5 G0 X10 Y-10 Z5 G1 Z-2 G2 X10 Y-90 i-10 j-40 G1 X10 Y-10 G0 Z5 G0 X0 Y0 Z5
	M5
4.	Describe, in detail, or draw with dimensions the shape created by the Gcode above.
5.	Clearly explain the difference between G90 and G91 (Don't just say their names).
6.	Clearly explain the difference between G0 and G1. Why do we need them both?
7.	Clearly explain the difference between G2 and G3.

3. In the Gcode below, explain the function of each line of code that has an arrow.