CSCI 1410: Fundamentals of Computing Class Work

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1. Describe in your own words the objects produced by each of the following operations: 1. Point (130, 130)

A point is produced in your object window 130 pixels to the right and 130 pixels down from the upper left corner of the window.

2. c = Circle (Point (30, 40), 25) c.setFill (‘blue’)

c.setOutline (‘red’)

A blue circle with a red outline should be created with its center at (30,40) and a radius of 25.

3. r = Rectangle (Point (20, 20), Point (40, 40)) r.setFill (color\_rgb(0, 255, 150))

r.setWidth (3)

A neon green rectangle with a length and width of 20 (a.k.a a square) will be drawn. The outline will be black but have a thickness of 3 px.

4. l = Line ((Point (100, 100), Point (100, 200) ) l.setOutline (‘red’)

l.setArrow(‘first’)

A red line will be drawn connecting 2 points at (100,100) and (100,200) with the arrow at (100,100) resulting in a red arrow being drawn pointing directly up.

5. Oval (Point (50, 50), Point (60, 100))

A black oval will be drawn that fits inside the bounds of the 2 points (60,60) and (60,100). Because there is a bigger vertical boundary than horizontal, the oval will be more vertical prone.

6. shape = Polygon (Point (5, 5), Point (10, 10), Point (5, 10), point (10, 5)) shape.setFill (‘Orange’)

An orange hourglass will be drawn with the 4 corners at the 4 points listed above. An hourglass is created instead of a square due to the order of the points. A line is drawn from the first point to the second, from the second to the third, and so on.