Part I

1. The robot sees blue, green, red, and purple well, so that is what I am using.

2. If two Easter eggs of different colors are touching, then they will maintain their individual ellipses in the cam view (see lab4-1.2.png).

3. If two Easter eggs are touching, and they are the same color, then they will form one large ellipse (see lab4-1.3.png).

4. See lab4-1.4.png for ellipse pairs.

Part II

1. See lab4-2.1.png for verification of the working program

2. {empty question}

3. getCentroid() returns a Point object.

4. See lab4-2.4.png for verification of the working program.

Part III

1. {empty question}

2. {empty question}

3. See picture lab4-3.3a.png, lab4-3.3b.png, and lab4-3.3c.png

Part IV

See screenshots