**Color Thresholding app in matlab**

Ball is white and every thing else is black

Use HSV (Hue Seperator v- illumination)

Maek the image black and white and then export the function.

This will be the preprocessing of the image

Add two mask together(For red and green)

**Now use image segmentation app**

Morphological operators for cleaning the noise.

Apply close and open.

Export the function

**Image Region analyzer**

The regions will be displayed in the table

Eccentricity= how much circular the object is (zero for perfect circle)

Equivalent diameter = to calculate the radius of object

Export the function

Centroid = center of the mass(documentation)

Circularity

1. We have the x,y and r
2. Find z using
3. Polyfit(x,y,n) where n should be 2 for parabola
4. Don’t use first 5 images for parabola bcz the ball still is in hand