DETECTING THE VERTICAL ANGLE OF AN IN REAL TIME

1.Import all the required libraries such as cv2,math.

2.Start the video capture function to capture the frames

3.start the loop to read the frames and detect the respective color of the arrow(you can use trackbars initially for hsv range then replace the trackbars with your range).

4.find all the contours of the arrow while taking hsv converted frame as input

5.use approxpolydp to approximate the vertices of arrow

6.iterate through the coordinates of vertices and get the topmost coordinate or tip’s coordinate

7.find the angle of tip through atan2 function

