**TEAM ID : PNT2022TMID02412**

import cv2

import numpy as np

import smtplib

import threading

Fire\_Reported = 0

video = cv2.VideoCapture(0) # If you want to use webcam use Index like 0,1.

while True:

(grabbed, frame) = video.read()

if not grabbed:

break

frame = cv2.resize(frame, (960, 540))

blur = cv2.GaussianBlur(frame, (21, 21), 0)

hsv = cv2.cvtColor(blur, cv2.COLOR\_BGR2HSV)

lower = [18, 50, 50]

upper = [35, 255, 255]

lower = np.array(lower, dtype="uint8")

upper = np.array(upper, dtype="uint8")

mask = cv2.inRange(hsv, lower, upper)

output = cv2.bitwise\_and(frame, hsv, mask=mask)

no\_red = cv2.countNonZero(mask)

if int(no\_red) > 15000:

Fire\_Reported = Fire\_Reported + 1

cv2.imshow("output", output)

if cv2.waitKey(1) & 0xFF == ord('q')

break

cv2.destroyAllWindows()

video.release()

OUTPUT:

