

```

# cap = cv2.VideoCapture('sample_video.mp4')
cap = cv2.VideoCapture(0)
# cap = cv2.VideoCapture('https://10.137.131.218:8080/video')
#
#
# Create the background subtractor object
foog = cv2.createBackgroundSubtractorMOG2(
    detectShadows=False, varThreshold=40, history=150)

# history ----> jitni jyada history , utna slow motions k liye robust hoga

while(1):

    ret, frame = cap.read()
    if not ret:
        break

    # Apply the background object on each frame
    fgmask = foog.apply(frame)

    # Get rid of the shadows
    ret, fgmask = cv2.threshold(fgmask, 250, 255, cv2.THRESH_BINARY)

    # Show the background subtraction frame.
    # cv2.imshow('All three', fgmask) # original

    fgmask = cv2.cvtColor(fgmask, cv2.COLOR_GRAY2BGR)
    cv2.imshow('Stacked frame', np.hstack((frame, fgmask)))
    k = cv2.waitKey(10)
    if k == ord('q'):
        break

cap.release()
cv2.destroyAllWindows()

```

CompleteSystem.py

# Import the required libraries