**Path follow using the setmousecallback**

import os  
import numpy as np  
import cv2  
import matplotlib.pyplot as plt  
import time  
  
  
os.chdir("C:/Users/abdul/OneDrive/Pictures/New folder")  
cap = cv2.VideoCapture(0)  
\_, frame = cap.read()  
old\_gray = cv2.cvtColor(frame,cv2.COLOR\_BGR2GRAY)  
  
lk\_params = dict( winSize=(15, 15),  
 maxLevel=4,  
 criteria=(cv2.TERM\_CRITERIA\_EPS | cv2.TERM\_CRITERIA\_COUNT, 10, 0.03))  
  
  
def mouse(event, x, y, flags, params):  
 global point, select, old\_point  
 if event == cv2.EVENT\_LBUTTONDOWN:  
 select = True  
 point = (x, y)  
 old\_point = np.array([[x, y]], dtype=np.float32)  
  
  
  
point = []  
old\_point = np.array([[]])  
select = False  
  
cv2.namedWindow("frame")  
cv2.setMouseCallback("frame", mouse)  
while True:  
 \_, frame = cap.read()  
 gray\_frame = cv2.cvtColor(frame, cv2.COLOR\_BGR2GRAY)  
 if select is True:  
 cv2.circle(frame, point, 5, (0, 0, 255), 2)  
 new\_points, status, error = cv2.calcOpticalFlowPyrLK(old\_gray, gray\_frame, old\_point, None, \*\*lk\_params)  
 old\_gray = gray\_frame.copy()  
 old\_point = new\_points  
 x, y = new\_points.ravel()  
 a, b = old\_point.ravel()  
 cv2.circle(frame, (x, y), 5, (0, 255, 0), -1)  
  
 cv2.imshow("frame", frame)  
 key = cv2.waitKey(1)  
 if key == ord("q"):  
 break  
cap.release()  
cv2.destroyAllWindows()