```python
# Mouse using Hand Gesture

import cv2
import mediapipe as mp
import pyautogui

cap = cv2.VideoCapture(0)
det = mp.solutions.hands.Hands()
draw = mp.solutions.drawing_utils
scr_w, scr_h = pyautogui.size()

in_y = 0
in_x = 0

while True:

    suc, img = cap.read()
    img = cv2.flip(img, 1)
    img = cv2.resize(img,(700, 400))
    img_h, img_w, val= img.shape
    rgb_img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
    out = det.process(rgb_img)
    hands = out.multi_hand_landmarks

    if hands:

        for hand in hands:
            draw.draw_landmarks(img, hand)
            land = hand.landmark

            for id, land in enumerate(land):
                x = int(land.x*img_w)
                y = int(land.y*img_h)

                if id == 8:
                    cv2.circle(img=img, center=(x,y), radius=10, color=(0, 255, 255))
                    in_x = scr_w/img_w*x
                    in_y = scr_h/img_h*y

                if id == 4:
                    cv2.circle(img=img, center=(x,y), radius=10, color=(255, 255,
255))
                    th_x = scr_w/img_w*x
                    th_y = scr_h/img_h*y

                    if abs(in_y - th_y) < 20:
                        pyautogui.click()
                        pyautogui.sleep(1)
                    elif abs(in_y - th_y) < 450 and abs(in_y - th_y) > 100:
                        pyautogui.moveTo(in_x, in_y)

    cv2.imshow('Virtual Mouse',img)
    cv2.waitKey(8)

```