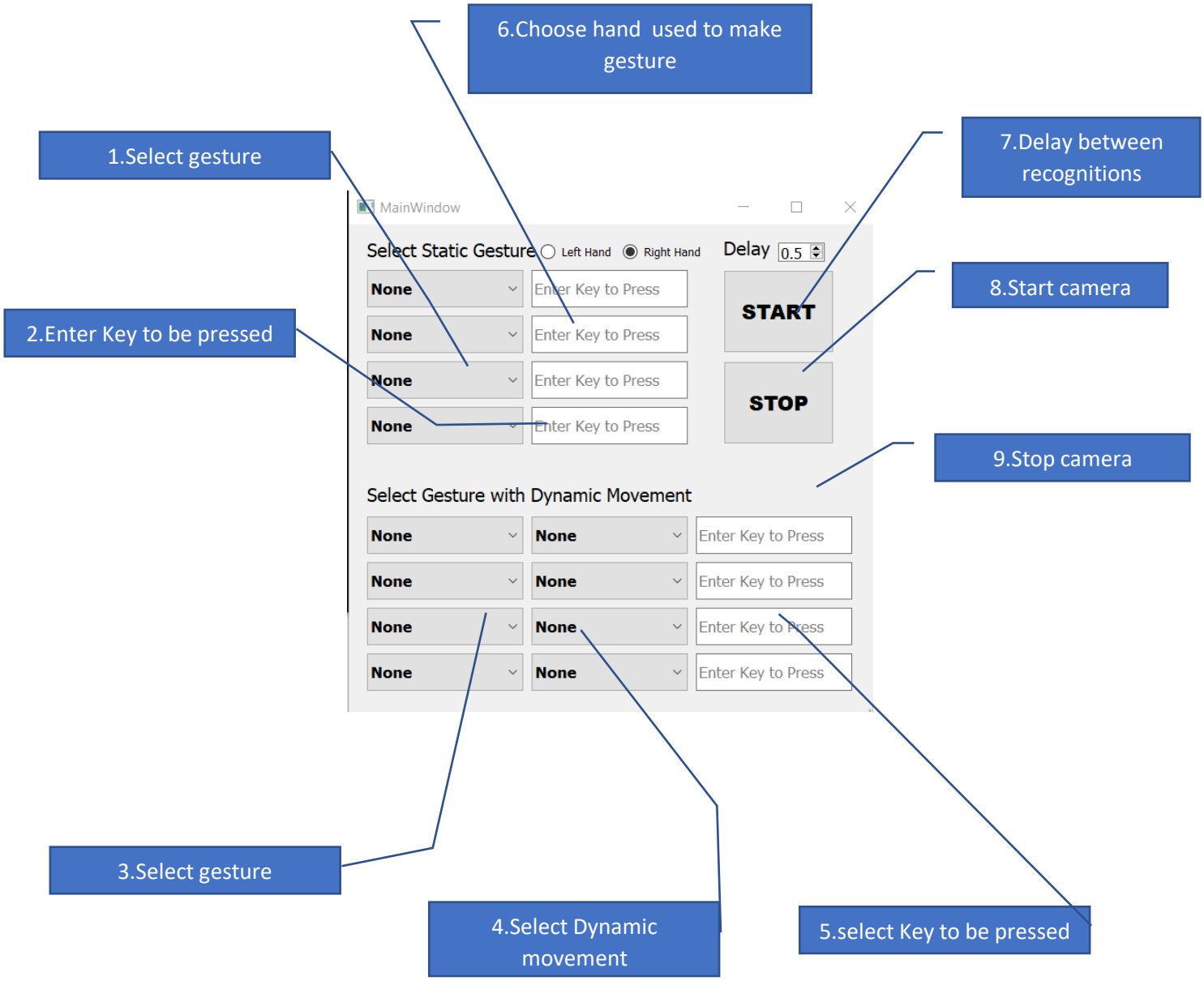
Custom Gesture Control Application Guide

To run :test -> test.exe

- **This application performs actions ,on desktop/laptop, choosen by user.**
- **Actions are infact key presses which are triggered programatically when a certain gesture is detected.**
- **User has to select a gesture and associate a key press with it.**
- **Follow the steps given to get started.**

➢ Application Overview:



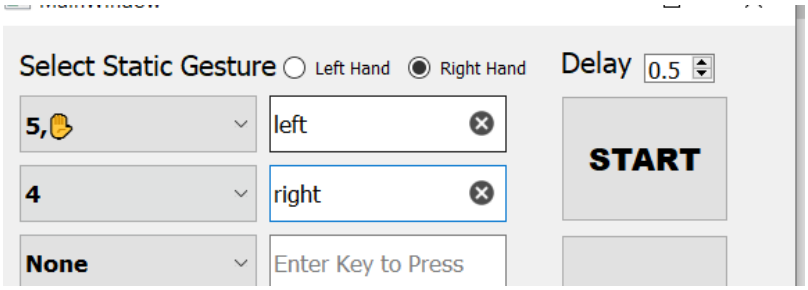
➢ Get Started:

1.Select a Hand Gesture from the list.

2.Enter any key which is supposed to be pressed after gesture from step 1 is detected.eg:

In the given figure,the selected configuration would mean

- When 5(open hand) is detected,left arrow key will be pressed.
- When 4 is detected,right arrow key will be pressed.
- Recognitions(ie key presses) will have 0.5 sec delay.



***Note**: To generate key press just enter the literal name of key.*

3.Same as 1

4.Gesture entered in step 3 will have dynamic movement associated with it.Select that movement.

5. Same as 2.eg:

In the given figure the selected configuration would mean

- When fist(close hand) is detected, nothing will happen. When fist will move left, left arrow key will be pressed.
- Similarly ,right arrow key will be pressed when victory gesture is moved right.

6.Select hand which will be used to perform the gesture.

7.Select delay accordingly i.e. if actions are performed too fast decrease the delay or vice versa.

8.Start the camera feed and start recognition.

9. Stop the camera feed and stop recognition.

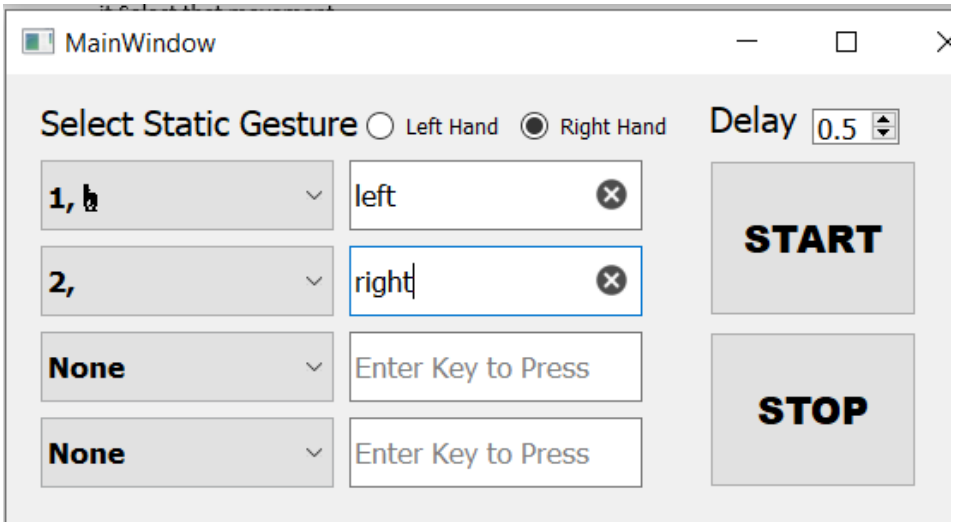
10.Make sure the inner palm of your selected hand faces the camera.

11.Though Step 1 and Step 3 are independent of each other,it is better to use either static or dynamic gestures at a one time.

- **Testing Example 1:**
  - Enter given configuration in application.
  - Open notepad (make sure cursor is blinking in notepad).
  - Perform the gestures and see if corresponding letter is typed in notepad.
  - Application and Camera feed can be minimized.
  - Tip:Make sure your Thumb is properly closed.ie bent infront of your palm whenever needed. 

➢ **Testing Example 2:**

- To control ppt slides.
- Enter below configuration and start.
- (2 is thumb and index finger open)
- Open any presentation and make sure slides can be changed with left and right arrow keys.
- Open Slide Show.
- Perform gesture to change slide.
- Tip:Change delay,if slide changes are too fast or too slow.



- Similary ,you can try with dynamic gesture too.
  (Note: Currently each Dynamic movement needs a unique static gesture ie fist cannot have Slide Left and Slide Right both associated with it.)