Creating Two Mouse Pointers:

1. To list available input devices command 'xinput' is used.

```
Ŧ
                          hp@hp-HP-Pavilion-Laptop-15-cc1xx: ~
                                                            Q
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~$ xinput
 Virtual core pointer
                                                 id=2
                                                         [master pointer
                                                                          (3)1
                                                 id=4
    4 Virtual core XTEST pointer
                                                         [slave
                                                                 pointer
                                                                          (2)]
                                                 id=13
    ▶ ETPS/2 Elantech Touchpad
                                                         [slave
                                                                 pointer
                                                                          (2)]
    4 Logitech USB Optical Mouse
                                                 id=10
                                                         [slave
                                                                 pointer
                                                                          (2)]
                                                         [master keyboard (2)]
 Virtual core keyboard
                                                 id=3
    4 Virtual core XTEST keyboard
                                                         [slave keyboard (3)]
                                                 id=5
                                                 id=6
                                                         [slave keyboard (3)]
    4 Power Button
    4 Video Bus
                                                 id=7
                                                         [slave keyboard (3)]

↓ Video Bus

                                                 id=8
                                                         [slave keyboard (3)]
                                                 id=9
                                                         [slave keyboard (3)]
    4 Power Button
    HP Wide Vision HD Camera: HP Wi
                                                 id=11
                                                         [slave keyboard (3)]
                                                 id=12
                                                         [slave keyboard (3)]
    AT Translated Set 2 keyboard
    ⊌ HP WMI hotkeys
                                                 id=14
                                                         [slave keyboard (3)]
    HP Wireless hotkeys
                                                 id=15
                                                         [slave keyboard (3)]
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~$
```

From the above output, it's seen that the external wired mouse has id=10 and inbuilt touchpad mouse has id=13.

2. Create a new pointer using xinput create-master Pointer2.

```
hp@hp-HP-Pavilion-Laptop-15-cc1xx: ~
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~$ xinput create-master Pointer2
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~$ xinput
 Virtual core pointer
                                                id=2
                                                         [master pointer
    4 Virtual core XTEST pointer
                                                id=4
                                                         [slave
                                                                 pointer
                                                                          (2)]
    ↳ ETPS/2 Elantech Touchpad
                                                id=13
                                                         [slave
                                                                 pointer
                                                         [slave
    4 Logitech USB Optical Mouse
                                                id=10
                                                                 pointer
 Virtual core keyboard
                                                         [master keyboard (2)]
                                                id=3
    √Virtual core XTEST keyboard ا
                                                id=5
                                                                 keyboard (3)]
                                                         [slave
    4 Power Button
                                                id=6
                                                         [slave
                                                                 keyboard (3)]
    4 Video Bus
                                                                 keyboard (3)]
                                                id=7
                                                         [slave
    4 Video Bus
                                                                keyboard (3)]
                                                id=8
                                                         [slave
                                                                 keyboard (3)]
    4 Power Button
                                                id=9
                                                         [slave
                                                         [slave
    HP Wide Vision HD Camera: HP Wi
                                                                 keyboard (3)]
                                                id=11
                                                                 keyboard (3)]
    AT Translated Set 2 keyboard
                                                id=12
                                                         [slave
                                                                 keyboard (3)
    HP WMI hotkeys
                                                id=14
                                                         [slave
    HP Wireless hotkeys
                                                id=15
                                                         [slave
                                                                 keyboard (3)]
 Pointer2 pointer
                                                id=16
                                                         [master
                                                                 pointer
                                                                          (17)]
    ♣ Pointer2 XTEST pointer
                                                id=18
                                                         [slave
                                                                 pointer
                                                                          (16)]
 Pointer2 keyboard
                                                id=17
                                                         [master
                                                                 keyboard (16)]
    ♣ Pointer2 XTEST keyboard
                                                id=19
                                                         [slave keyboard (17)]
p@hp-HP-Pavilion-Laptop-15-cc1xx:~$
```

Pointer2 is created and has id=16.

3. Reattach the control of pointer2 to usb optical mouse.

```
hp@hp-HP-Pavilion-Laptop-15-cc1xx: ~
 F1
                                                                            hp@hp-HP-Pavilion-Laptop-15-cc1xx:~$ xinput reattach 10 16
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~$ xinput
 Virtual core pointer
                                                 id=2
                                                          [master pointer
                                                                           (3)
    4 Virtual core XTEST pointer
                                                 id=4
                                                          [slave
                                                                  pointer
                                                                           (2)]
                                                 id=13

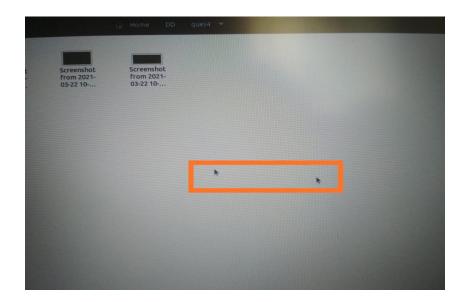
↓ ETPS/2 Elantech Touchpad

                                                          [slave
                                                                 pointer
 Virtual core keyboard
                                                 id=3
                                                          [master keyboard (2)

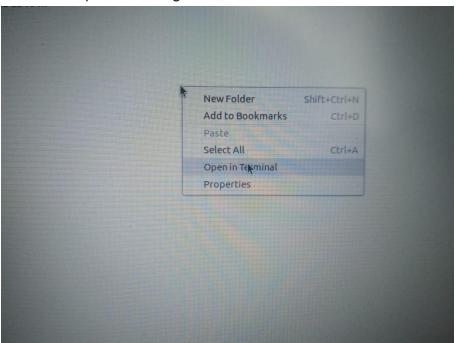
↓ Virtual core XTEST keyboard

                                                 id=5
                                                                  keyboard
                                                          [slave
                                                                  keyboard
    4 Power Button
                                                 id=6
                                                          [slave
                                                          slave
    4 Video Bus
                                                 id=7
                                                                  keyboard
    4 Video Bus
                                                 id=8
                                                          [slave
                                                                 keyboard (3)]
    4 Power Button
                                                 id=9
                                                                  keyboard (3)]
                                                          [slave
                                                 id=11
    HP Wide Vision HD Camera: HP Wi
                                                          [slave
                                                                  keyboard (3)
    AT Translated Set 2 keyboard
                                                 id=12
                                                                  keyboard
                                                          [slave
    HP WMI hotkeys
                                                 id=14
                                                                  keyboard
                                                          [slave
    HP Wireless hotkeys
                                                 id=15
                                                          [slave
                                                                  keyboard
 Pointer2 pointer
                                                 id=16
                                                          [master pointer
    4 Logitech USB Optical Mouse
                                                 id=10
                                                          [slave
                                                                  pointer
                                                                           (16)]
    ▶ Pointer2 XTEST pointer
                                                 id=18
                                                          [slave
                                                                 pointer
 Pointer2 keyboard
                                                 id=17
                                                          [master keyboard (16)]
    ♭ Pointer2 XTEST keyboard
                                                          [slave
                                                 id=19
                                                                 keyboard (17)
```

4. Two mouse pointers are created, one accessed by external mouse and another using the touchpad.



Two mouse pointers image:



5. Remove the Pointer2 using the command 'xinput-master 16' where 16 is the id of the Pointer2.

```
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~$ xinput remove-master 16
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~$ xinput
 Virtual core pointer
                                                id=2
                                                         [master pointer
                                                                          (3)]
    4 Virtual core XTEST pointer
                                                id=4
                                                         [slave pointer
                                                                          (2)]
    4 ETPS/2 Elantech Touchpad
                                                id=13
                                                         [slave
                                                                 pointer
                                                                          (2)]
 Virtual core keyboard
                                                id=3
                                                         [master keyboard (2)
    4 Virtual core XTEST keyboard
                                                                 keyboard (3)
                                                id=5
                                                         [slave
    4 Power Button
                                                                 keyboard (3)]
                                                id=6
                                                         [slave
    4 Video Bus
                                                id=7
                                                         [slave
                                                                 keyboard (3)]
    4 Video Bus
                                                id=8
                                                         [slave
                                                                 keyboard (3)]
                                                                 keyboard (3)]
    4 Power Button
                                                id=9
                                                         [slave
    4 HP Wide Vision HD Camera: HP Wi
                                                id=11
                                                         [slave
                                                                 keyboard (3)]
   AT Translated Set 2 keyboard
                                                id=12
                                                         [slave
                                                                 keyboard (3)]
    4 HP WMI hotkeys
                                                id=14
                                                                 keyboard (3)]
                                                         [slave
    HP Wireless hotkeys
                                                id=15
                                                                 keyboard (3)]
                                                         [slave
 ·Logitech USB Optical Mouse
                                                id=10
                                                        [floating slave]
hp@hp-HP-Pavilion-Laptop-15-cc1xx:~$
```