

DEVICE DRIVERS PRACTICE

EXERCISE - 4

Bhaavana Thumu - CED17I021

Question - To have two mouse cursors on monitor.

Note - Sir, I do not have an external USB mouse at home right now. Hence, I won't be able to attach an external pointer for the exercise.

```
dell@bhaavana: ~  
dell@bhaavana:~$ xinput  
Virtual core pointer          id=2    [master pointer (3)]  
↳ Virtual core XTEST pointer  id=4    [slave pointer (2)]  
↳ Synaptics TM3096-006        id=11   [slave pointer (2)]  
Virtual core keyboard        id=3    [master keyboard (2)]  
↳ Virtual core XTEST keyboard id=5    [slave keyboard (3)]  
↳ Power Button               id=6    [slave keyboard (3)]  
↳ Video Bus                  id=7    [slave keyboard (3)]  
↳ Power Button               id=8    [slave keyboard (3)]  
↳ Sleep Button               id=9    [slave keyboard (3)]  
↳ Integrated_Webcam_HD: Integrate id=10   [slave keyboard (3)]  
↳ Intel HID events           id=12   [slave keyboard (3)]  
↳ Dell WMI hotkeys           id=13   [slave keyboard (3)]  
↳ AT Translated Set 2 keyboard id=14   [slave keyboard (3)]  
dell@bhaavana:~$ xinput create-master Pointer2  
dell@bhaavana:~$ xinput  
Virtual core pointer          id=2    [master pointer (3)]  
↳ Virtual core XTEST pointer  id=4    [slave pointer (2)]  
↳ Synaptics TM3096-006        id=11   [slave pointer (2)]  
Virtual core keyboard        id=3    [master keyboard (2)]  
↳ Virtual core XTEST keyboard id=5    [slave keyboard (3)]  
↳ Power Button               id=6    [slave keyboard (3)]  
↳ Video Bus                  id=7    [slave keyboard (3)]  
↳ Power Button               id=8    [slave keyboard (3)]  
↳ Sleep Button               id=9    [slave keyboard (3)]  
↳ Integrated_Webcam_HD: Integrate id=10   [slave keyboard (3)]  
↳ Intel HID events           id=12   [slave keyboard (3)]  
↳ Dell WMI hotkeys           id=13   [slave keyboard (3)]  
↳ AT Translated Set 2 keyboard id=14   [slave keyboard (3)]  
Pointer2 pointer              id=15   [master pointer (16)]  
↳ Pointer2 XTEST pointer      id=17   [slave pointer (15)]  
Pointer2 keyboard             id=16   [master keyboard (15)]  
↳ Pointer2 XTEST keyboard     id=18   [slave keyboard (16)]  
dell@bhaavana:~$ xinput remove-master 15  
dell@bhaavana:~$ xinput  
Virtual core pointer          id=2    [master pointer (3)]  
↳ Virtual core XTEST pointer  id=4    [slave pointer (2)]  
↳ Synaptics TM3096-006        id=11   [slave pointer (2)]  
Virtual core keyboard        id=3    [master keyboard (2)]  
↳ Virtual core XTEST keyboard id=5    [slave keyboard (3)]  
↳ Power Button               id=6    [slave keyboard (3)]  
↳ Video Bus                  id=7    [slave keyboard (3)]  
↳ Power Button               id=8    [slave keyboard (3)]  
↳ Sleep Button               id=9    [slave keyboard (3)]  
↳ Integrated_Webcam_HD: Integrate id=10   [slave keyboard (3)]  
↳ Intel HID events           id=12   [slave keyboard (3)]  
↳ Dell WMI hotkeys           id=13   [slave keyboard (3)]  
↳ AT Translated Set 2 keyboard id=14   [slave keyboard (3)]  
dell@bhaavana:~$
```

```
del@bhaavanas: ~$ conda deactivate
del@bhaavanas: ~$ xinput
Virtual core pointer              id=2  [master pointer (3)]
  ↳ Virtual core XTEST pointer    id=4  [slave pointer (2)]
  ↳ Synaptics TR3096-006          id=11  [slave pointer (2)]
Virtual core keyboard            id=3  [master keyboard (2)]
  ↳ Virtual core XTEST keyboard    id=5  [slave keyboard (3)]
  ↳ Power Button                  id=6  [slave keyboard (3)]
  ↳ Video Bus                     id=7  [slave keyboard (3)]
  ↳ Power Button                  id=8  [slave keyboard (3)]
  ↳ Sleep Button                  id=9  [slave keyboard (3)]
  ↳ Integrated_Webcam_HD: Integrate id=10  [slave keyboard (3)]
  ↳ Intel HID events               id=12  [slave keyboard (3)]
  ↳ Dell WMI hotkeys               id=13  [slave keyboard (3)]
  ↳ AT Translated Set 2 keyboard   id=14  [slave keyboard (3)]
del@bhaavanas: ~$ xinput create-master Pointer2
del@bhaavanas: ~$ xinput
Virtual core pointer              id=2  [master pointer (3)]
  ↳ Virtual core XTEST pointer    id=4  [slave pointer (2)]
  ↳ Synaptics TR3096-006          id=11  [slave pointer (2)]
Virtual core keyboard            id=3  [master keyboard (2)]
  ↳ Virtual core XTEST keyboard    id=5  [slave keyboard (3)]
  ↳ Power Button                  id=6  [slave keyboard (3)]
  ↳ Video Bus                     id=7  [slave keyboard (3)]
  ↳ Power Button                  id=8  [slave keyboard (3)]
  ↳ Sleep Button                  id=9  [slave keyboard (3)]
  ↳ Integrated_Webcam_HD: Integrate id=10  [slave keyboard (3)]
  ↳ Intel HID events               id=12  [slave keyboard (3)]
  ↳ Dell WMI hotkeys               id=13  [slave keyboard (3)]
  ↳ AT Translated Set 2 keyboard   id=14  [slave keyboard (3)]
Pointer2 pointer                  id=15  [master pointer (16)]
  ↳ Pointer2 XTEST pointer        id=17  [slave pointer (15)]
Pointer2 keyboard                 id=16  [master keyboard (15)]
  ↳ Pointer2 XTEST keyboard       id=18  [slave keyboard (16)]
del@bhaavanas: ~$
```



An extra cursor (Pointer2) has been created.