

Device Drivers - Practise

(LAB 2)

Q1) Adding a 2nd cursor/pointer to the linux

A) **\$xinput create-master 'name'**

-write the name of the new cursor.

\$xinput list

-displays the ids of the existing slave devices.

\$xinput reattach [slave device name or id] [master device name/id]

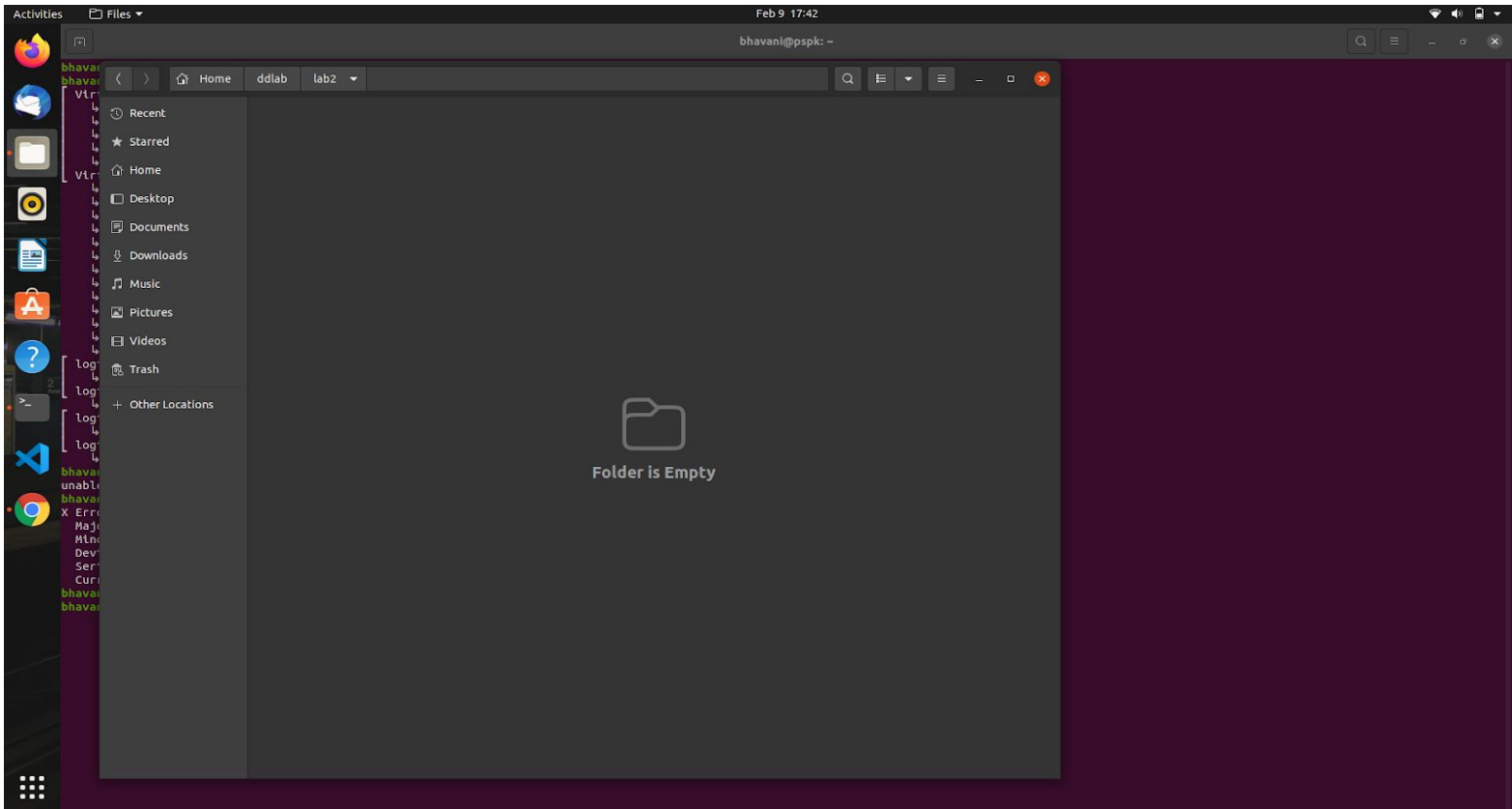
-assigning/attaching the slave device id to newly created master device.

-Here the master device id is 22.

-And the slave device id is 18.

-Please refer below screenshot. In case if not visible, screenshots are added separately, please refer sir. (i couldn't capture them in the screenshot sir).


```
Activities Terminal Feb 9 17:43 bhavanl@pspk: -
bhavanl@pspk:~$ xinput create-master logitech_gmouse
bhavanl@pspk:~$ xinput list
Virtual core pointer              id=2    [master pointer (3)]
↳ Virtual core XTEST pointer      id=4    [slave pointer (2)]
↳ SYNA7DB5:01 06CB:7DB7 Mouse      id=17   [slave pointer (2)]
↳ SYNA7DB5:01 06CB:7DB7 Touchpad    id=18   [slave pointer (2)]
↳ Logitech G102 Prodigy Gaming Mouse Consumer Control id=14   [slave pointer (2)]
↳ Logitech G102 Prodigy Gaming Mouse id=21   [slave pointer (2)]
Virtual core keyboard             id=3    [master keyboard (2)]
↳ Virtual core XTEST keyboard      id=5    [slave keyboard (3)]
↳ Acer Wireless Radio Control      id=6    [slave keyboard (3)]
↳ Power Button                     id=7    [slave keyboard (3)]
↳ Video Bus                         id=8    [slave keyboard (3)]
↳ Video Bus                         id=9    [slave keyboard (3)]
↳ Power Button                     id=10   [slave keyboard (3)]
↳ Sleep Button                     id=11   [slave keyboard (3)]
↳ HD WebCam: HD WebCam             id=16   [slave keyboard (3)]
↳ AT Translated Set 2 keyboard     id=19   [slave keyboard (3)]
↳ Acer WMI hotkeys                 id=20   [slave keyboard (3)]
↳ Logitech G102 Prodigy Gaming Mouse Keyboard id=12   [slave keyboard (3)]
↳ Logitech G102 Prodigy Gaming Mouse System Control id=13   [slave keyboard (3)]
↳ Logitech G102 Prodigy Gaming Mouse Consumer Control id=15   [slave keyboard (3)]
logitech_mouse pointer            id=22   [master pointer (23)]
↳ logitech_mouse XTEST pointer     id=24   [slave pointer (22)]
logitech_mouse keyboard           id=23   [master keyboard (22)]
↳ logitech_mouse XTEST keyboard    id=25   [slave keyboard (23)]
logitech_gmouse pointer           id=26   [master pointer (27)]
↳ logitech_gmouse XTEST pointer    id=28   [slave pointer (26)]
logitech_gmouse keyboard          id=27   [master keyboard (26)]
↳ logitech_gmouse XTEST keyboard   id=29   [slave keyboard (27)]
bhavanl@pspk:~$ xinput reattach 2 "logitech_gmouse"
unable to find device 'logitech_gmouse'
bhavanl@pspk:~$ xinput reattach 2 22
X Error of failed request:  XI_BadDevice (Invalid Device parameter)
Major opcode of failed request: 131 (XInputExtension)
Minor opcode of failed request: 43 ()
Device id in failed request: 0x2
Serial number of failed request: 19
Current serial number in output stream: 20
bhavanl@pspk:~$ xinput reattach 18 22
bhavanl@pspk:~$
```



`-$xinput remove-master 'name of the device'`

To remove the newly added master device.