

Device Drivers

LAB -2

Exercise 4

Prepared by:
Maria Philna Aruja
CED171028

1. List all input devices before connecting the mouse:

```
jesus-Inspiron-5570: ~
maria@jesus-Inspiron-5570:~$ xinput
Virtual core pointer                    id=2    [master pointer (3)]
└─ Virtual core XTEST pointer          id=4    [slave pointer (2)]
   └─ DELL0810:00 044E:120A Touchpad    id=11   [slave pointer (2)]
      └─ AlpsPS/2 ALPS GlidePoint       id=16   [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)]
                     └─ Intel HID 5 button array id=13   [slave keyboard (3)]
                        └─ Dell WMI hotkeys id=14   [slave keyboard (3)]
                           └─ AT Translated Set 2 keyboard id=15   [slave keyboard (3)]
```

2. List all input devices after connecting the mouse:

```
└─ AT Translated Set 2 keyboard          id=15   [slave keyboard (3)]
maria@jesus-Inspiron-5570:~$ xinput
Virtual core pointer                    id=2    [master pointer (3)]
└─ Virtual core XTEST pointer          id=4    [slave pointer (2)]
   └─ DELL0810:00 044E:120A Touchpad    id=11   [slave pointer (2)]
      └─ AlpsPS/2 ALPS GlidePoint       id=16   [slave pointer (2)]
         └─ YSPRINGTECH USB OPTICAL MOUSE id=17   [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)]
                     └─ Intel HID 5 button array id=13   [slave keyboard (3)]
                        └─ Dell WMI hotkeys id=14   [slave keyboard (3)]
                           └─ AT Translated Set 2 keyboard id=15   [slave keyboard (3)]
```

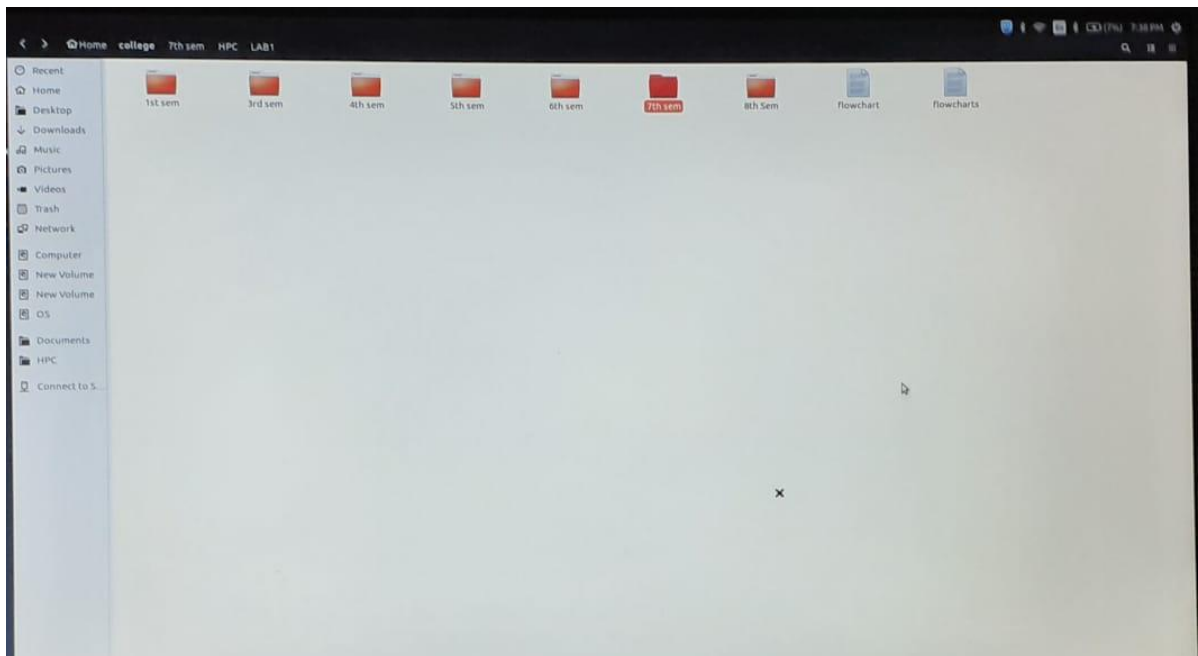
3. Creating another pointer:

```
maria@jesus-Inspiron-5570:~$ xinput create-master Pointer2
maria@jesus-Inspiron-5570:~$ xinput
Virtual core pointer                                id=2      [master pointer (3)]
├─ Virtual core XTEST pointer                      id=4      [slave pointer (2)]
├─ DELL0810:00 044E:120A Touchpad                  id=11     [slave pointer (2)]
├─ AlpsPS/2 ALPS GlidePoint                        id=16     [slave pointer (2)]
├─ YSPRINGTECH USB OPTICAL MOUSE                   id=17     [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)]
    ├─ Intel HID 5 button array                     id=13     [slave keyboard (3)]
    ├─ Dell WMI hotkeys                             id=14     [slave keyboard (3)]
    └─ AT Translated Set 2 keyboard                  id=15     [slave keyboard (3)]
Pointer2 pointer                                    id=18     [master pointer (19)]
├─ Pointer2 XTEST pointer                          id=20     [slave pointer (18)]
└─ Pointer2 keyboard                               id=19     [master keyboard (18)]
    └─ Pointer2 XTEST keyboard                     id=21     [slave keyboard (19)]
```

4. Reattaching

```
maria@jesus-Inspiron-5570:~$ xinput reattach 17 18
maria@jesus-Inspiron-5570:~$ xinput
Virtual core pointer                                id=2      [master pointer (3)]
├─ Virtual core XTEST pointer                      id=4      [slave pointer (2)]
├─ DELL0810:00 044E:120A Touchpad                  id=11     [slave pointer (2)]
├─ AlpsPS/2 ALPS GlidePoint                        id=16     [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)]
    ├─ Intel HID 5 button array                     id=13     [slave keyboard (3)]
    ├─ Dell WMI hotkeys                             id=14     [slave keyboard (3)]
    └─ AT Translated Set 2 keyboard                  id=15     [slave keyboard (3)]
Pointer2 pointer                                    id=18     [master pointer (19)]
├─ YSPRINGTECH USB OPTICAL MOUSE                   id=17     [slave pointer (18)]
├─ Pointer2 XTEST pointer                          id=20     [slave pointer (18)]
└─ Pointer2 keyboard                               id=19     [master keyboard (18)]
    └─ Pointer2 XTEST keyboard                     id=21     [slave keyboard (19)]
```

5. Two pointers on screen



6. Removing Pointer2

```
unable to find device Pointer2
maria@jesus-Inspiron-5570:~$ xinput remove-master 18
maria@jesus-Inspiron-5570:~$ xinput
Virtual core pointer                id=2      [master pointer (3)]
↳ Virtual core XTEST pointer        id=4      [slave pointer (2)]
↳ DELL0810:00 044E:120A Touchpad     id=11     [slave pointer (2)]
↳ AlpsPS/2 ALPS GlidePoint          id=16     [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)]
↳ Intel HID 5 button array          id=13     [slave keyboard (3)]
↳ Dell WMI hotkeys                  id=14     [slave keyboard (3)]
↳ AT Translated Set 2 keyboard       id=15     [slave keyboard (3)]
~ YSPRINGTECH USB OPTICAL MOUSE     id=17     [floating slave]
maria@jesus-Inspiron-5570:~$
```