

# Jul 18 2025 BDBP106: Linux and Python programming Lab 2

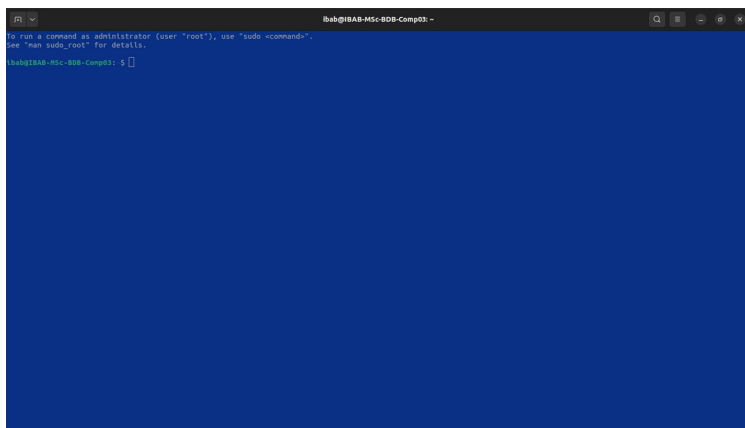
Learning goals: Learning about the Linux Shell – understanding their features can enhance your command line experience

## EXERCISES

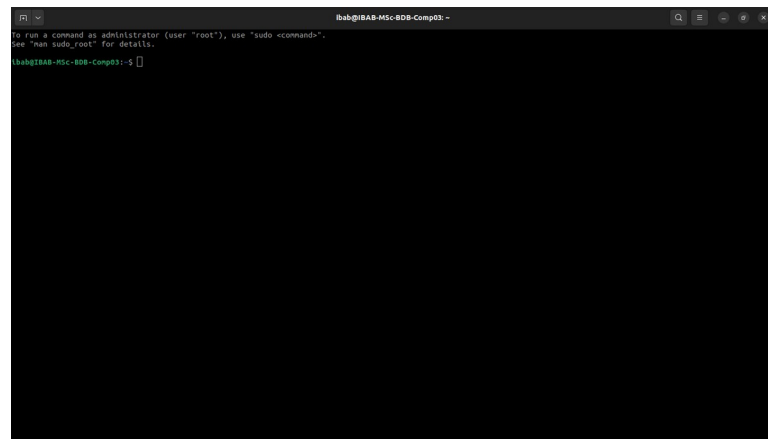
- (1) Bring up a GNOME Terminal emulator in the 'WindowsOS-style' by clicking on 'Start Menu' and locating the 'Terminal' App
- (2) Bring up a GNOME Terminal emulator by bringing up the 'Run Command' console (Alt +Fn) and then typing 'gnome-terminal'



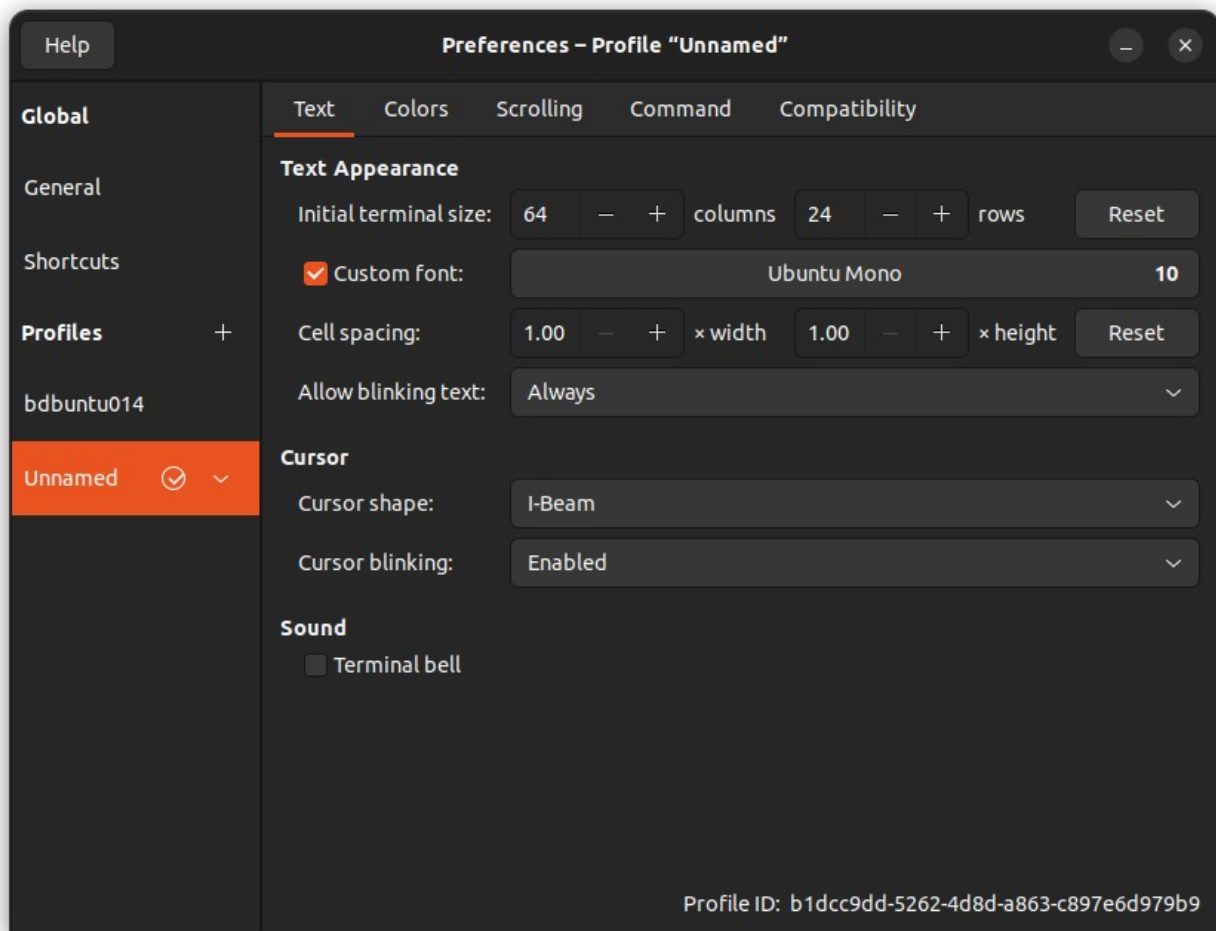
- (3) Create a Profile that has the following features and take a snapshot of the terminal features window as well as the terminal itself. The features are Font: Ubuntu Sans Mono with font size 10, dark background, I-Beam cursor shape, Enable cursor blinking, disable cursor bell, background color palette entry 9.



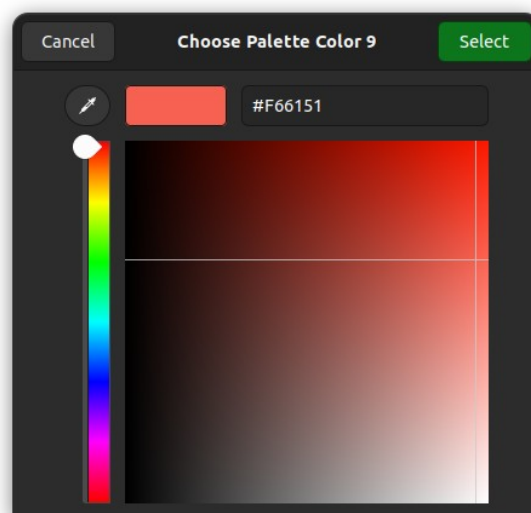
before



after changing background

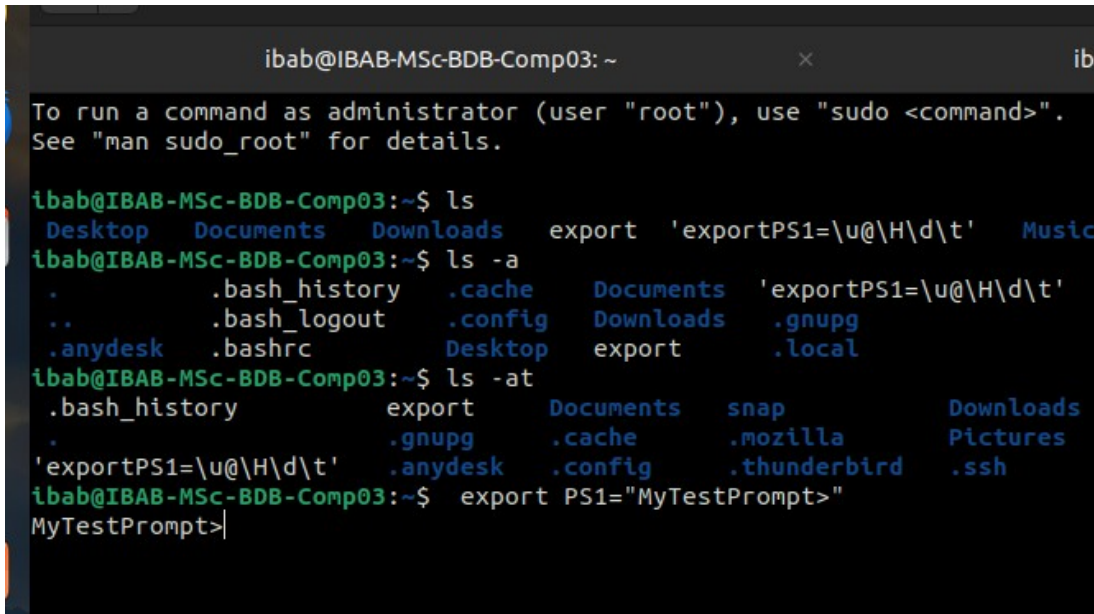


Text;Ubuntu Mono 10, Cursor Shape;I-Bean, Cursor;Enable, sound  
Terminal bell Off



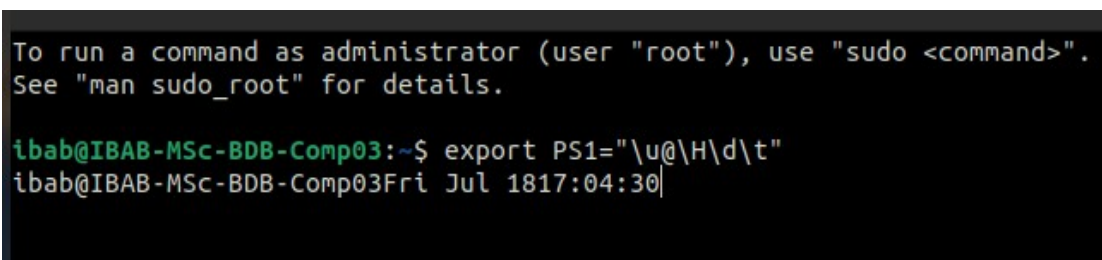
Colour palet 9

(4) Change your command prompt to "MyTestPrompt1;" and take a screenshot. Also take a screenshot after reverting back to the default prompt.

A terminal window titled 'ibab@IBAB-MSc-BDB-Comp03: ~'. It shows the user running 'ls' and 'ls -a' to view files and hidden files. Then, the user runs 'export PS1="MyTestPrompt>"' and the prompt changes to 'MyTestPrompt>'.

```
ibab@IBAB-MSc-BDB-Comp03: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ibab@IBAB-MSc-BDB-Comp03:~$ ls  
Desktop  Documents  Downloads  export  'exportPS1=\u@\H\d\t'  Music  
ibab@IBAB-MSc-BDB-Comp03:~$ ls -a  
..      .bash_history  .cache  Documents  'exportPS1=\u@\H\d\t'  
..      .bash_logout  .config Downloads  .gnupg  
..      .anydesk      .bashrc  Desktop    export      .local  
ibab@IBAB-MSc-BDB-Comp03:~$ ls -at  
..      .bash_history  export      Documents  snap        Downloads  
..      .gnupg        .cache     .mozilla   Pictures  
'exportPS1=\u@\H\d\t' .anydesk    .config    .thunderbird .ssh  
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="MyTestPrompt>"  
MyTestPrompt>
```

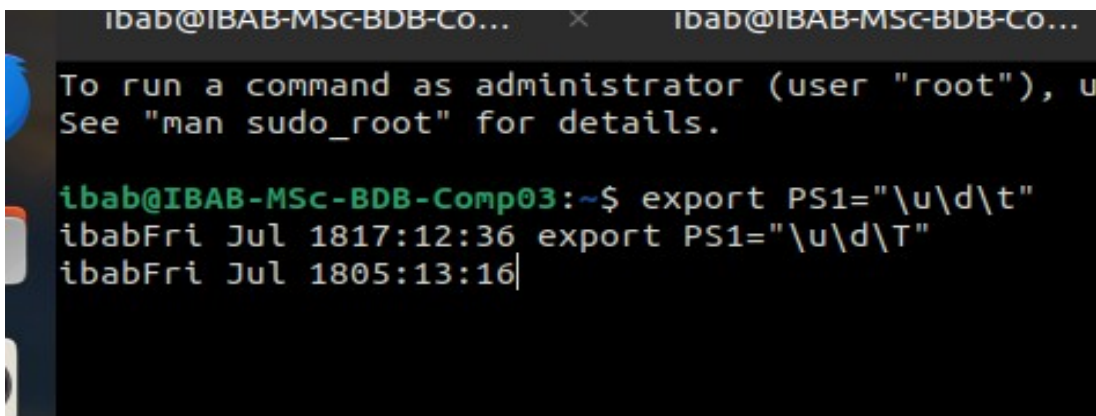
(5) Change your command prompt to make the username, hostname and time appear in 24-hour format

The terminal shows the user running 'export PS1="\u@\H\d\t"'. The prompt changes to 'ibab@IBAB-MSc-BDB-Comp03Fri Jul 1817:04:30|'.

```
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u@\H\d\t"  
ibab@IBAB-MSc-BDB-Comp03Fri Jul 1817:04:30|
```

Username, Hostname,time,24 hr Format

(6) Change your command prompt to make only the hostname, date and time appear, and time should appear in 12-hour format

The terminal shows the user running 'export PS1="\u\d\t"'. The prompt changes to 'ibabFri Jul 1817:12:36'. Then, the user runs 'export PS1="\u\d\T"' and the prompt changes to 'ibabFri Jul 1805:13:16|'.

```
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u\d\t"  
ibabFri Jul 1817:12:36  
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u\d\T"  
ibabFri Jul 1805:13:16|
```

Date & Time 12Hr Format

To run a command as administrator (user "root"), use "sudo <command>  
See "man sudo\_root" for details.

```
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u\H"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u>"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u@\H:"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u>\s\v:"
ibab@IBAB-MSc-BDB-Comp03:~$ bash5.1:
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u@\H\d"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u@\H\d\t"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u@\H\d\t"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u@\H\d\t"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u@\H\d\t"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u@d\T"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u@\H\A"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\W>"
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\u@\H\d\t"
ibab@IBAB-MSc-BDB-Comp03:~$
```

## Other Changes

ibab@IBAB-MSc-BDB-Comp03: ~

To run a command as administrator (user "root"), use "sudo <command>  
See "man sudo\_root" for details.

```
ibab@IBAB-MSc-BDB-Comp03:~$ cd Downloads/
ibab@IBAB-MSc-BDB-Comp03:~/Downloads$ ls
ibab@IBAB-MSc-BDB-Comp03:~/Downloads$ export PS1="w : "
w : |
```

## Other Changes

7) Change the color of your command prompt to have Bold, underline and Blue appearance.

```
ibab@IBAB-MSc-BDB-Comp03: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\e[1;4;34m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$
```

Bold +Underline+ Blue Apperance

```
ibab@IBAB-MSc-BDB-Comp03: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ibab@IBAB-MSc-BDB-Comp03:~$ export PS1="\e[1;4;34m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ ^C  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;34;36m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ ^C  
[ibab@IBAB-MSc-BDB-Comp03~]$ ^C  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;34;32m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;33;34m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;31m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;32m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;33m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;35m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;36m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;37m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;38m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;37;36m[\u@\h\W]$ \e[0m"  
[ibab@IBAB-MSc-BDB-Comp03~]$ export PS1="\e[1;4;34m[\u@\h\W]$ \e[0m"
```

