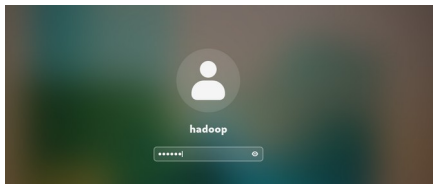


## 1. Login with your userID



## 2. Find values of env variables

### a. PATH

```
[student@mcalab3-17 ~]$ $PATH
bash: /usr/lib/jvm/java-1.8.0-openjdk-1:1.8.0.272.b10-0.fc31.x86_64/jre/bin:/home/student/Downloads/hadoop-3.3.6/bin:/home/student/Downloads/PIG/pig-0.17.0/bin:/home/student/Downloads/hive_new/apache-hive-3.1.2-bin/bin:/home/student/Downloads/HBASE/hbase-2.5.8-bin/hbase-2.5.8/bin:/usr/lib/jvm/java-1.8.0-openjdk-1:1.8.0.272.b10-0.fc31.x86_64/jre/bin:/home/student/Downloads/hadoop-3.3.6/bin:/home/student/Downloads/PIG/pig-0.17.0/bin:/home/student/Downloads/hive_new/apache-hive-3.1.2-bin/bin:/home/student/Downloads/HBASE/hbase-2.5.8-bin/hbase-2.5.8/bin:/home/student/.local/bin:/home/student/bin:/usr/share/Modules/bin:/usr/local/bin:/usr/local/sbin:/usr/bin:/usr/sbin: No such file or directory
```

### b. HOME

```
[student@mcalab3-17 ~]$ $HOME
bash: /home/student: Is a directory
```

### c. SHELL

```
[student@mcalab3-17 ~]$ echo $SHELL
/bin/bash
```

## 3. Present Directory → \$PWD

## 4. What are the directories under your home directory

```
[hadoop@fedora new]$ ls -d */
```

3/ one/ two/

## 5. What are the directories under the root directory

```
[hadoop@fedora ~]$ ls /
```

afs boot etc lib lost+found mnt proc run srv tmp var  
bin dev home lib64 media opt root sbin sys usr

## 6. Display the following content using echo command

```
[student@mcalab3-17 hello]$ echo -e "Welcome \n to \n linux lab \n linux is fun"
Welcome
to
linux lab
linux is fun
```

## 7. Write Linux commands to perform the following tasks

### a. Display today's date :

```
[hadoop@fedora ~]$ date
```

Wed Jul 23 01:16:23 AM EDT 2025

### b. display calendar of June 2017

```
[student@mcalab3-17 hello]$ cal 12 2017
      December 2017
Su Mo Tu We Th Fr Sa
                1  2
 3  4  5  6  7  8  9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31
```

### c. Display the calendar of the months June and august 2015

```
[hadoop@fedora ~]$ cal 06 2015; cal 08 2015
      June 2015
Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30

      August 2015
Su Mo Tu We Th Fr Sa
                1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31
[hadoop@fedora ~]$
```

d. Display the calendar for July 2018 with the starting day of the week as Monday

```
[hadoop@fedora ~]$ cal -m 07 2018
      July 2018
Mo Tu We Th Fr Sa Su
                1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31
```

e. Display the current date and month

```
[hadoop@fedora ~]$ date +"%d %B"
23 July
```

f. To repeat your last command

```
[hadoop@fedora ~]$ !-1
date +"%d %B"
23 July
```

g. To repeat the last command that begins with the letter C

```
[hadoop@fedora ~]$ !c
cal
      July 2025
Su Mo Tu We Th Fr Sa
 1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
```

h. write command to repeat last 3 commands

```
[hadoop@fedora ~]$ !-3
ls -l | grep ^d | wc
 33   297   2059
```

I. who are the users working on the system

```
[hadoop@fedora ~]$ who
hadoop  seat0    2025-07-23 00:19 (login screen)
hadoop  tty2      2025-07-23 00:19 (tty2)
```

j. what is your username

```
[hadoop@fedora ~]$ whoami
hadoop
```

k. what is the flavour of linux you are working on

```
[hadoop@fedora ~]$ uname -a
Linux fedora 6.14.5-100.fc40.x86_64 #1 SMP PREEMPT_DYNAMIC Fri May 2 14:22:13
UTC 2025 x86_64 GNU/Linux
```

l. create user called tempuser with default home directory and default shell

```
[hadoop@fedora ~]$ sudo adduser tempuser1
```

m. create password for this user

```
[hadoop@fedora ~]$ sudo passwd tempuser1
```

New password:

Retype new password:

```
passwd: password updated successfully
```

n. delete the temp user

```
[hadoop@fedora ~]$ sudo userdel tempuser1
```

```
[sudo] password for hadoop:
```

o. Using command bc, calculate the value of the following expressions

I.  $(1456+234)/45$

```
[hadoop@fedora ~]$ bc
```

```
bc 1.07.1
```

```
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software  
Foundation, Inc.
```

```
This is free software with ABSOLUTELY NO WARRANTY.
```

```
For details type `warranty'.
```

```
(1456+234)/45
```

```
37
```

ii. Assign value 10 to var X, then increment by 1, Display the value after increment

**change this run in bc only**

```
[hadoop@fedora ~]$ X=10
```

```
[hadoop@fedora ~]$ ((X++))
```

```
[hadoop@fedora ~]$ echo $X
```

```
11
```