

Assignment no 1

- Display the date/time in following formats - Full month name, MMM, yy, MMM dd yy, dd/mm/yyyy, hh:mm day, hh:mm:ss AM/PM day dd/mm/yyyy

Solution:-

1. Full month name:

→date "+%B"

```
ubuntu@tryit:~$ date "+%B"
December
```

2. MMM:

Explanation and solution –

MMM usually refers to the **three-letter abbreviation**

→date "+%b"

```
ubuntu@tryit:~$ date "+%b"
Dec
```

3. yy:

Explanation and solution –

yy refers to the two digit year formats

```
ubuntu@tryit:~$ date "+%y"
24
```

4. MMM dd yy:

→date "+%B %d %y"

```
ubuntu@tryit:~$ date "+%B %d %y"
December 26 24
```

5. dd/mm/yyyy:

→date "+%d/%m%Y"

```
ubuntu@tryit:~$ date "+%d/%m/%Y"
26/12/2024
```

6. hh:mm day

→date "+%H:%M %a"

```
ubuntu@tryit:~$ date "+%H:%M %a"
00:43 Fri
```

7. hh:mm:ss AM/PM day dd/mm/yyyy

→date “%H:%M:%S %p %d/%m%Y”

```
ubuntu@tryit:~$ date "+%H:%M:%S %p %a %d/%m/%Y"
00:47:56 AM 27/12/2024
```

Date command basics

%Y: Year (e.g., 2024)

%m: Month (e.g., 12)

%d: Day of the month (e.g., 27)

%H: Hour (00 to 23)

%M: Minute (00 to 59)

%S: Second (00 to 59)

%j: Day of the year (1 to 366)

%s: Unix timestamp (seconds since 1970)

%A: Full weekday name (e.g., Monday)

%a: Abbreviated weekday name (e.g., Mon)

%B: Full month name (e.g., December)

%b: Abbreviated month name (e.g., Dec)

- Display the calendar for the following - current month, current year, September 1752

1. display current moth

```
terminal@terminal-temple ~ $ cal
December 2024
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
```

2. Display current year

cal -y

2024

January	February	March
Su Mo Tu We Th Fr Sa	Su Mo Tu We Th Fr Sa	Su Mo Tu We Th Fr Sa
1 2 3 4 5 6	1 2 3	1 2
7 8 9 10 11 12 13	4 5 6 7 8 9 10	3 4 5 6 7 8 9
14 15 16 17 18 19 20	11 12 13 14 15 16 17	10 11 12 13 14 15 16
21 22 23 24 25 26 27	18 19 20 21 22 23 24	17 18 19 20 21 22 23
28 29 30 31	25 26 27 28 29	24 25 26 27 28 29 30
	31	
April	May	June
Su Mo Tu We Th Fr Sa	Su Mo Tu We Th Fr Sa	Su Mo Tu We Th Fr Sa
1 2 3 4 5 6	1 2 3 4	1
7 8 9 10 11 12 13	5 6 7 8 9 10 11	2 3 4 5 6 7 8
14 15 16 17 18 19 20	12 13 14 15 16 17 18	9 10 11 12 13 14 15
21 22 23 24 25 26 27	19 20 21 22 23 24 25	16 17 18 19 20 21 22
28 29 30	26 27 28 29 30 31	23 24 25 26 27 28 29
	30	
July	August	September
Su Mo Tu We Th Fr Sa	Su Mo Tu We Th Fr Sa	Su Mo Tu We Th Fr Sa
1 2 3 4 5 6	1 2 3 1 2 3 4 5 6 7	
7 8 9 10 11 12 13	4 5 6 7 8 9 10	8 9 10 11 12 13 14
14 15 16 17 18 19 20	11 12 13 14 15 16 17	15 16 17 18 19 20 21
21 22 23 24 25 26 27	18 19 20 21 22 23 24	22 23 24 25 26 27 28
28 29 30 31	25 26 27 28 29 30 31	29 30
October	November	December
Su Mo Tu We Th Fr Sa	Su Mo Tu We Th Fr Sa	Su Mo Tu We Th Fr Sa
1 2 3 4 5	1 2 1 2 3 4 5 6 7	
6 7 8 9 10 11 12	3 4 5 6 7 8 9	8 9 10 11 12 13 14
13 14 15 16 17 18 19	10 11 12 13 14 15 16	15 16 17 18 19 20 21
20 21 22 23 24 25 26	17 18 19 20 21 22 23	22 23 24 25 26 27 28
27 28 29 30 31	24 25 26 27 28 29 30	29 30 31

3. Display calendar of September 1752

```
terminal@terminal-temple ~ $ cal 9 1752
    September 1752
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
```

- Use the who command to display - no. of users logged in, time of last system boot, current runlevel

1. No of users logged in

```
ubuntu@tryit:~$ who
root      pts/1      2024-12-27 01:18
ubuntu@tryit:~$ who | wc -l
1
```

2. Time of last system boot

```
$ who -b
system boot  Dec 17 13:16
```

3. current runlevel

```
system boot 2024-12-17 13:16
ubuntu@tryit:~$ runlevel
N 5
```

- Use ls to display - all files, including hidden files (these start with a dot), hidden files only, space occupied by each file in KB format, only directories, type of files displayed, sorted files

1. display files

```
terminal@terminal-temple ~ $ ls
Documents  Downloads  Music      Pictures
```

2. including hidden files(start with dot)

```
terminal@terminal-temple ~ $ ls -d .*
ls: .*: No such file or directory
```

3. hidden files only

```
ubuntu@tryit:~$ ls -a
. .. .bash_logout .bashrc .hushlogin .profile
```

4. space occupied by each file in kB formate

```
terminal@terminal-temple ~ $ ls -lh
total 4
drwxr-xr-x  5 terminal  staff  160 Dec 23 07:17 PM Documents
drwxr-xr-x  3 terminal  staff   96 Dec 23 07:17 PM Downloads
drwxr-xr-x  2 terminal  staff   64 Dec 23 07:17 PM Music
drwxr-xr-x  2 terminal  staff   64 Dec 23 07:17 PM Pictures
```

5. only directories

```
terminal@terminal-temple ~ $ ls -d
Documents      Downloads      Music          Pictures
```

6. types of files displayed

```
terminal@terminal-temple ~ $ ls -f
Documents      Downloads      Music          Pictures
```

7. sorted files

```
terminal@terminal-temple ~ $ ls -ls
total 4
drwxr-xr-x  5 terminal  staff  160 Dec 23 07:17 PM Documents
drwxr-xr-x  3 terminal  staff   96 Dec 23 07:17 PM Downloads
drwxr-xr-x  2 terminal  staff   64 Dec 23 07:17 PM Music
drwxr-xr-x  2 terminal  staff   64 Dec 23 07:17 PM Pictures
```