

Task Description 1.4

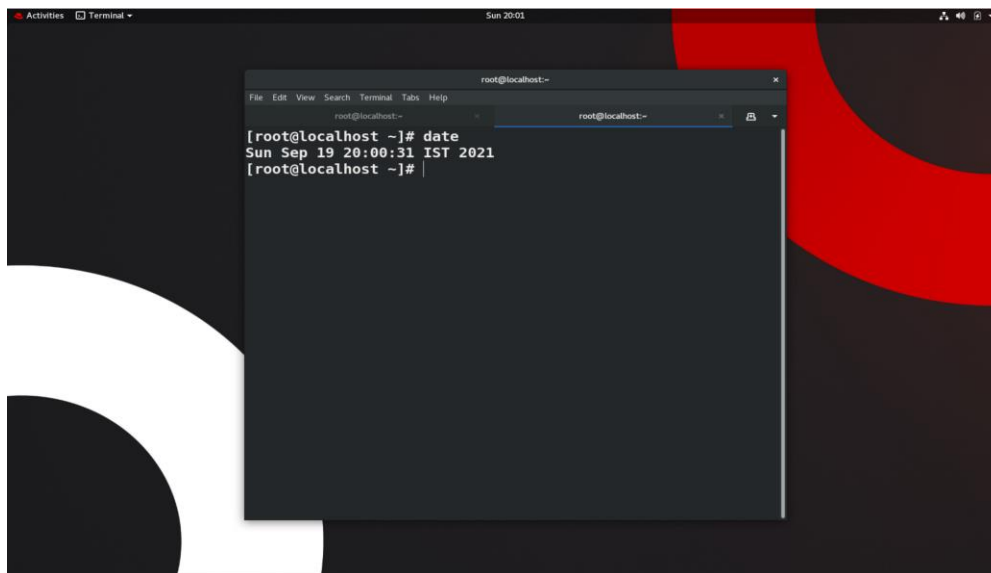
Explore date command and with options and try to use every option and create a simple document for it.

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Date command is used to display the system date and time. Date command is also used to set the system's date and time. By default the date command shows the date and time in the time zone on which the operating system is configured.

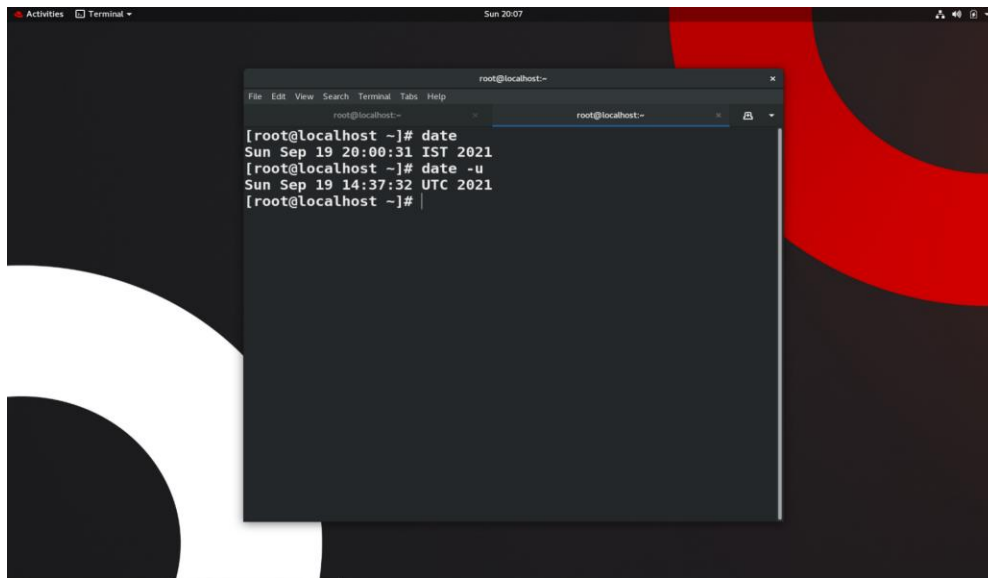
Options of date command:

1) date (no option)- it shows the current date and time, including the current abbreviated day and month then date, time separated with colons, time-zone and year.

A screenshot of a Linux terminal window. The window title is "root@localhost:~". The terminal shows the command "[root@localhost ~]# date" and its output "Sun Sep 19 20:00:31 IST 2021". The terminal is open over a desktop background with a dark theme and a large red and white abstract graphic on the right side. The top of the window shows the system clock as "Sun 20:01".

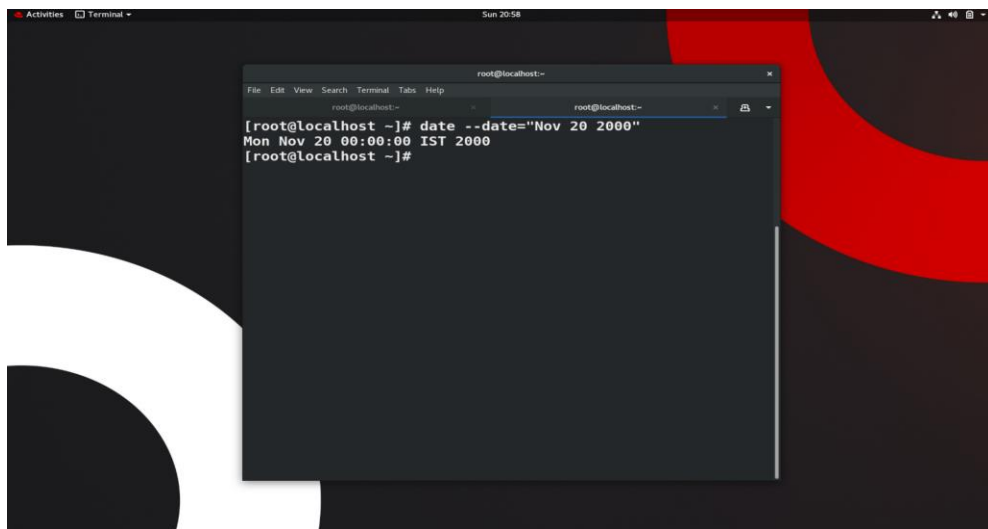
```
root@localhost:~  
[root@localhost ~]# date  
Sun Sep 19 20:00:31 IST 2021  
[root@localhost ~]#
```

2) date -u – it shows the current date and time but in UTC (Coordinated Universal Time) time zone.

A terminal window titled 'root@localhost:~' is open on a desktop with a dark background and red and white circular patterns. The terminal shows the following commands and output:

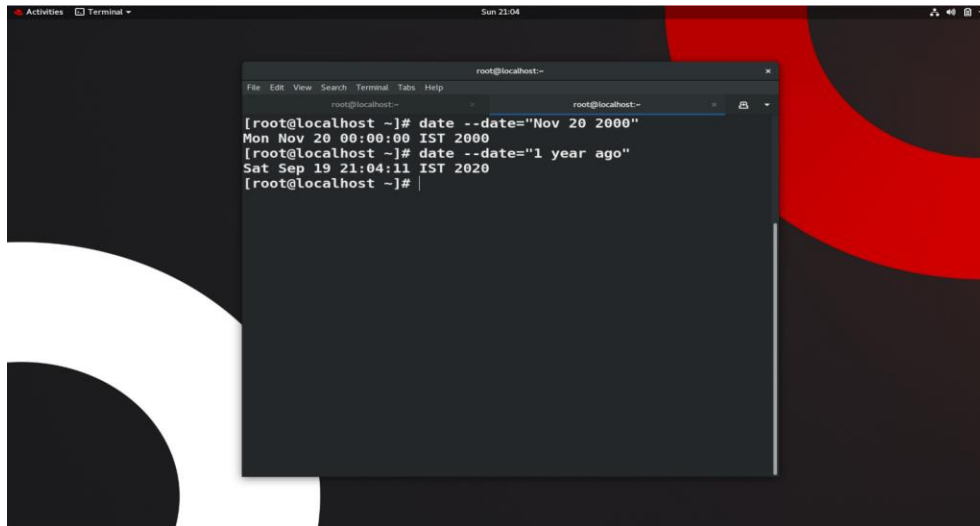
```
[root@localhost ~]# date
Sun Sep 19 20:00:31 IST 2021
[root@localhost ~]# date -u
Sun Sep 19 14:37:32 UTC 2021
[root@localhost ~]#
```

3) `date --date="string"` - It displays given date string in the format of date. It does not affect the system's date and time rather it prints the date given by the user in the form of string.

A terminal window titled 'root@localhost:~' is open on the same desktop background. The terminal shows the following command and output:

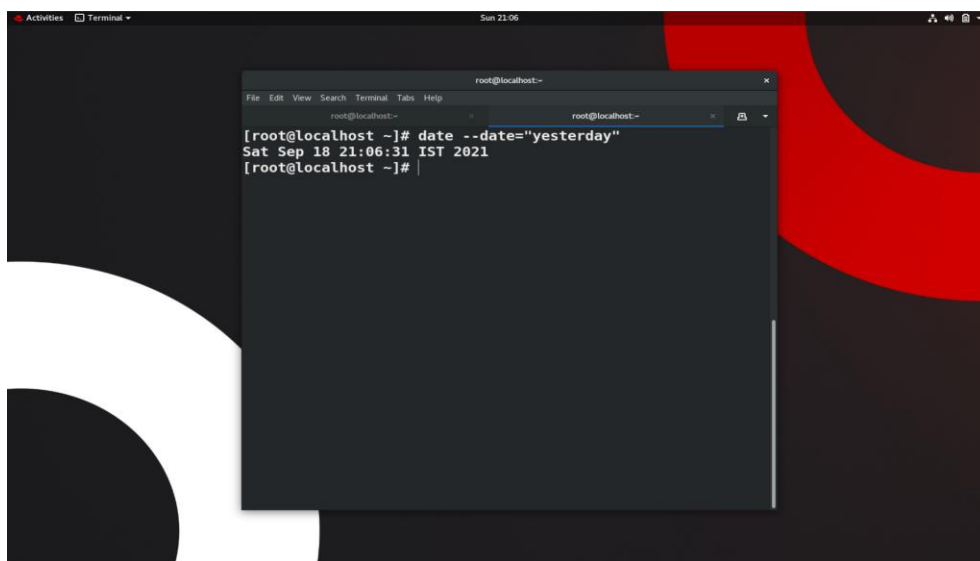
```
[root@localhost ~]# date --date="Nov 20 2000"
Mon Nov 20 00:00:00 IST 2000
[root@localhost ~]#
```

4) `date --date="1 year ago"` - It shows the date and time of 1 year ago. It takes the current date and time from your system.

A terminal window titled 'root@localhost:~' is open on a desktop with a red and black abstract background. The terminal shows the following commands and outputs:

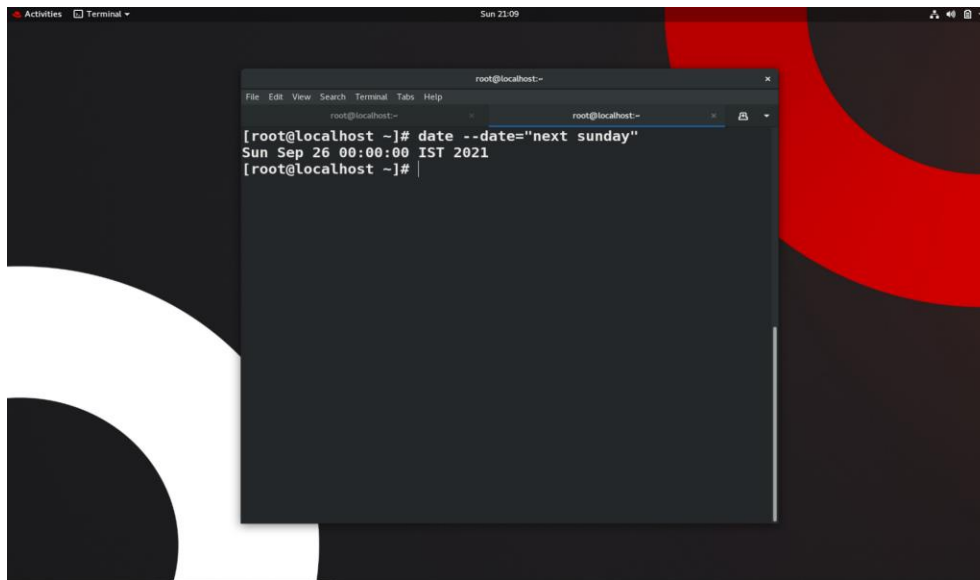
```
root@localhost:~# date --date="Nov 20 2000"
Mon Nov 20 00:00:00 IST 2000
root@localhost:~# date --date="1 year ago"
Sat Sep 19 21:04:11 IST 2020
root@localhost:~#
```

5) `date --date="yesterday"` - It shows the date and time of yesterday. It takes the current date and time from your system.

A terminal window titled 'root@localhost:~' is open on the same desktop background. The terminal shows the following command and output:

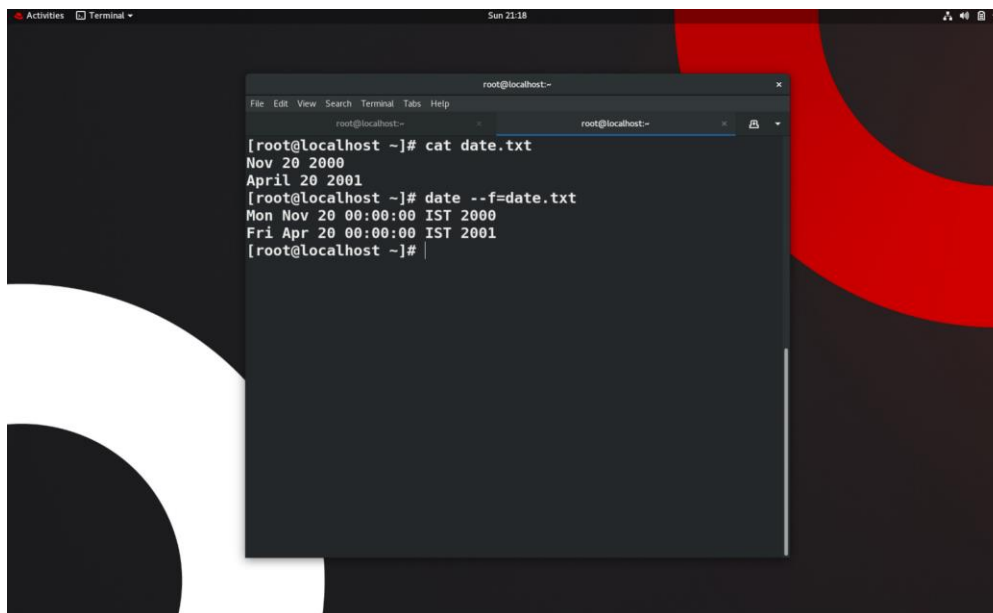
```
root@localhost:~# date --date="yesterday"
Sat Sep 18 21:06:31 IST 2021
root@localhost:~#
```

6) `date --date="next sunday"` - It shows the future date and time also.



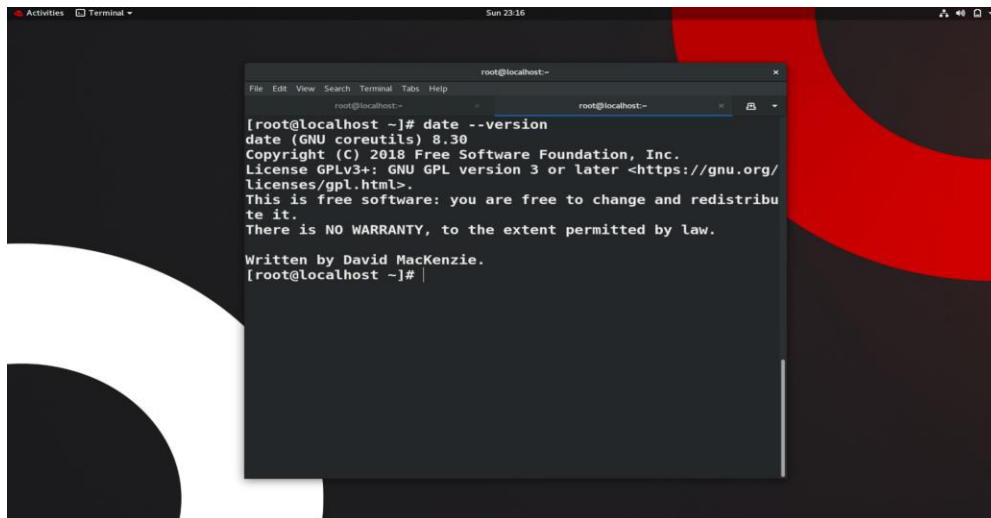
```
root@localhost:~# date --date="next sunday"
Sun Sep 26 00:00:00 IST 2021
root@localhost ~]#
```

7) `date -f=date.txt` - This shows the date and time in the file. This works same as `date --date="string"` but in `date --date="string"` we can run only one line of string but in `date -f=date.txt` we can run any number of strings.



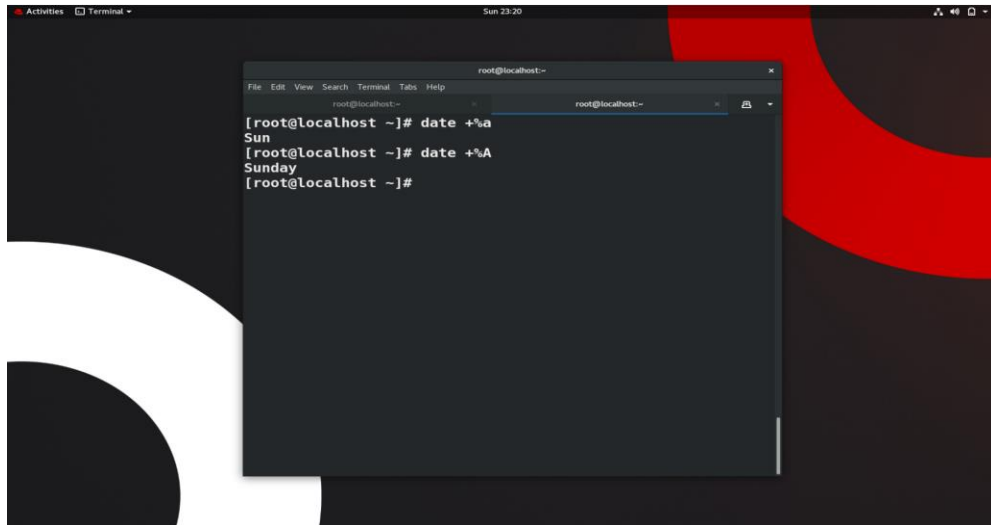
```
root@localhost:~# cat date.txt
Nov 20 2000
April 20 2001
root@localhost ~]# date -f=date.txt
Mon Nov 20 00:00:00 IST 2000
Fri Apr 20 00:00:00 IST 2001
root@localhost ~]#
```

8) `date --version` - Tells the version of date command.

A terminal window titled 'root@localhost ~' with a menu bar (File, Edit, View, Search, Terminal, Tabs, Help). The command '[root@localhost ~]# date --version' has been executed. The output is: 'date (GNU coreutils) 8.30', 'Copyright (C) 2018 Free Software Foundation, Inc.', 'License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.', 'This is free software: you are free to change and redistribute it.', 'There is NO WARRANTY, to the extent permitted by law.', 'Written by David MacKenzie.', and '[root@localhost ~]# |'.

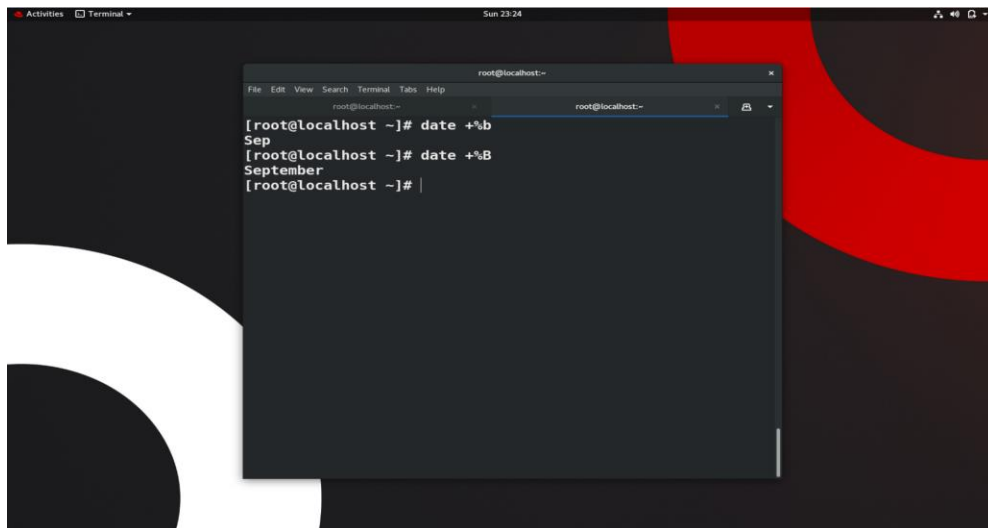
```
[root@localhost ~]# date --version
date (GNU coreutils) 8.30
Copyright (C) 2018 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Written by David MacKenzie.
[root@localhost ~]# |
```

9) date +%a (Gives only the day name in abbreviated form) and date +%A (Gives the day name)

A terminal window titled 'root@localhost ~' with a menu bar (File, Edit, View, Search, Terminal, Tabs, Help). The command '[root@localhost ~]# date +%a' has been executed, returning 'Sun'. Then, the command '[root@localhost ~]# date +%A' has been executed, returning 'Sunday'. The prompt '[root@localhost ~]#' is shown again.

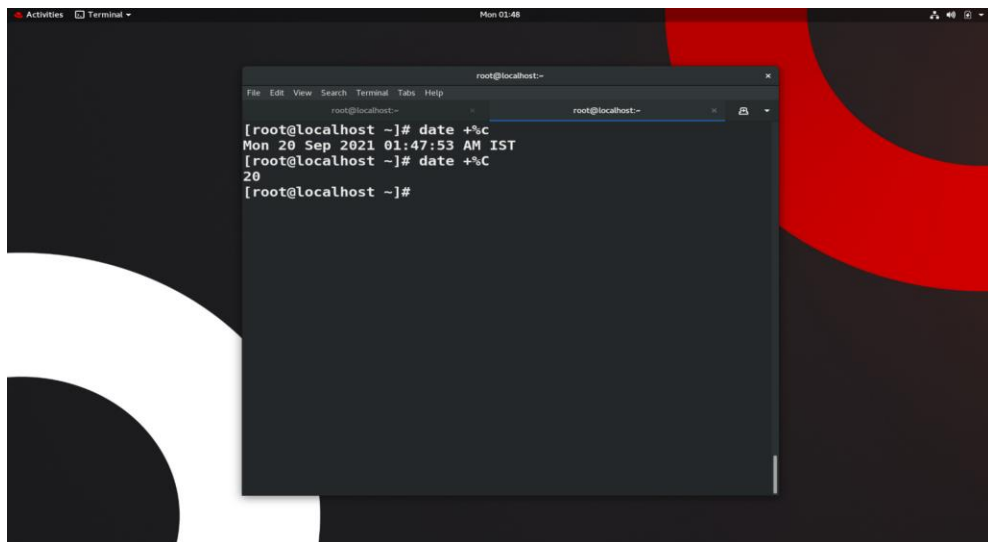
```
[root@localhost ~]# date +%a
Sun
[root@localhost ~]# date +%A
Sunday
[root@localhost ~]#
```

10) date +%b (Gives only the month name in abbreviated form) and date +%B (Gives the month name)

A terminal window titled 'root@localhost:~' is shown. It contains three lines of commands and their outputs: the first line is '[root@localhost ~]# date +%b' followed by 'Sep'; the second line is '[root@localhost ~]# date +%B' followed by 'September'; and the third line is '[root@localhost ~]# |' followed by a cursor. The terminal has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', 'Tabs', and 'Help'. The background of the desktop is dark with a red and white abstract pattern.

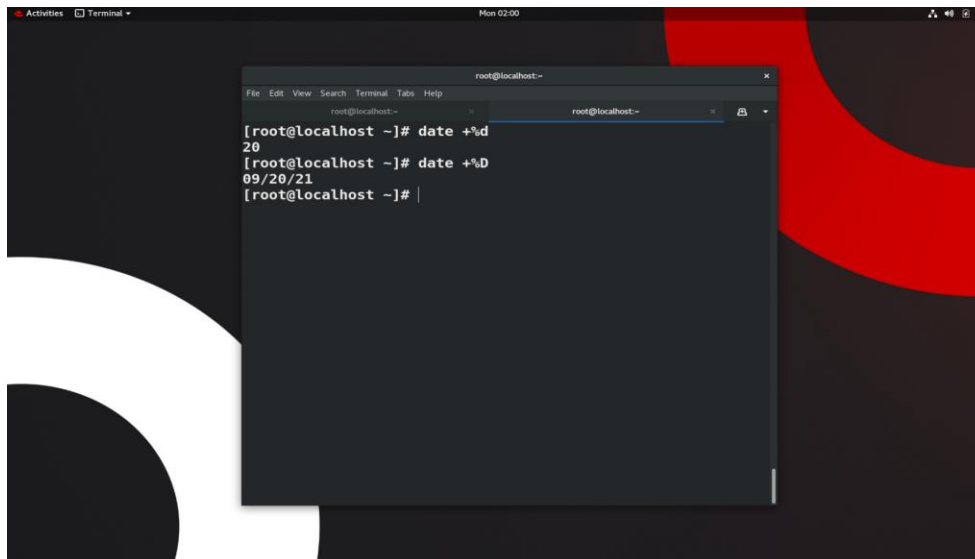
```
root@localhost:~  
[root@localhost ~]# date +%b  
Sep  
[root@localhost ~]# date +%B  
September  
[root@localhost ~]# |
```

11) date +%c (shows current date and time) and date +%C means century

A terminal window titled 'root@localhost:~' is shown. It contains three lines of commands and their outputs: the first line is '[root@localhost ~]# date +%c' followed by 'Mon 20 Sep 2021 01:47:53 AM IST'; the second line is '[root@localhost ~]# date +%C' followed by '20'; and the third line is '[root@localhost ~]#' followed by a cursor. The terminal has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', 'Tabs', and 'Help'. The background of the desktop is dark with a red and white abstract pattern.

```
root@localhost:~  
[root@localhost ~]# date +%c  
Mon 20 Sep 2021 01:47:53 AM IST  
[root@localhost ~]# date +%C  
20  
[root@localhost ~]#
```

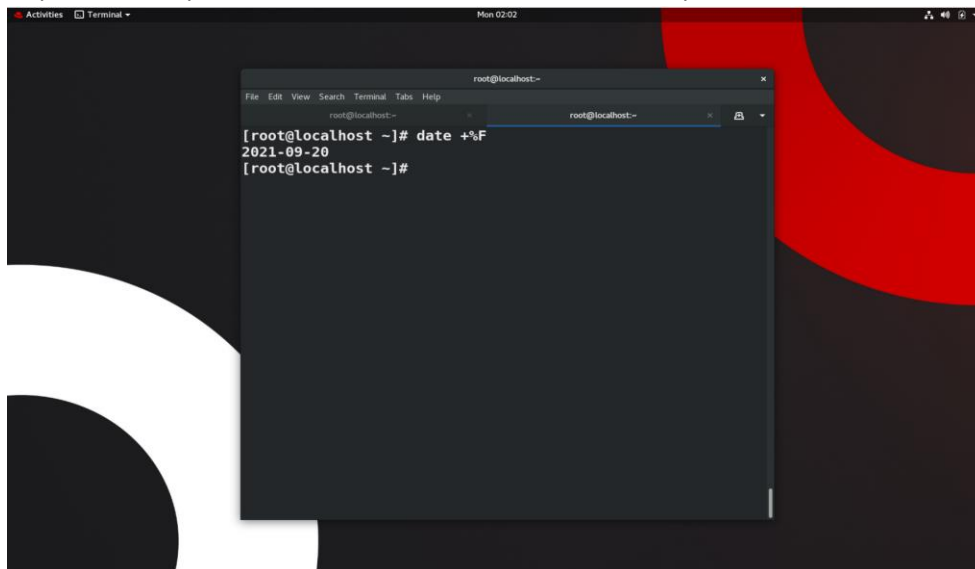
12) date +%d (show the day of the current date) date +%D (show the date of the current day)



A terminal window titled 'root@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Tabs, Help). The prompt is '[root@localhost ~]#'. The user enters 'date +%d' and the output is '20'. The user enters 'date +%D' and the output is '09/20/21'. The prompt is '[root@localhost ~]#'.

```
root@localhost:~  
[root@localhost ~]# date +%d  
20  
[root@localhost ~]# date +%D  
09/20/21  
[root@localhost ~]#
```

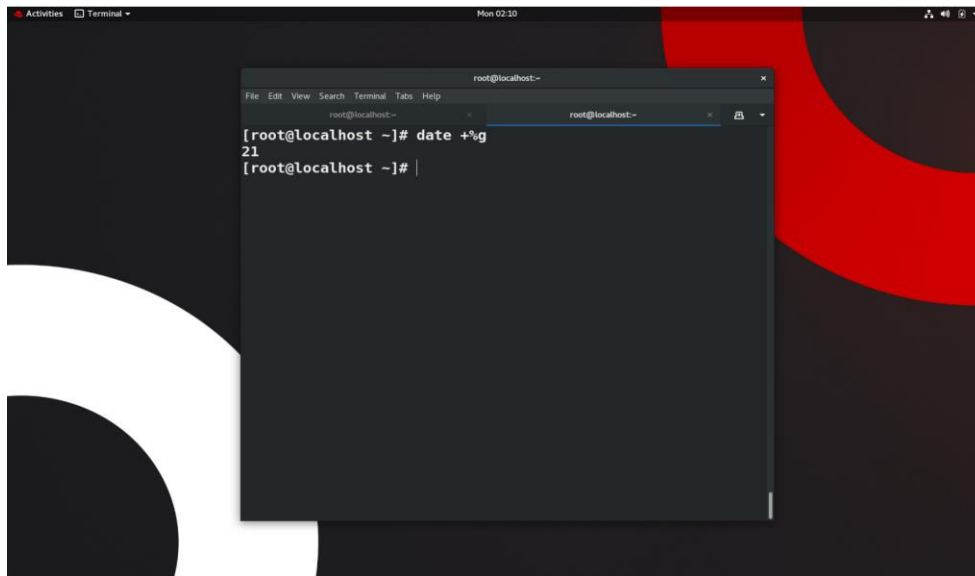
13) date +%F (show full date in the form %Y-%m-%d)



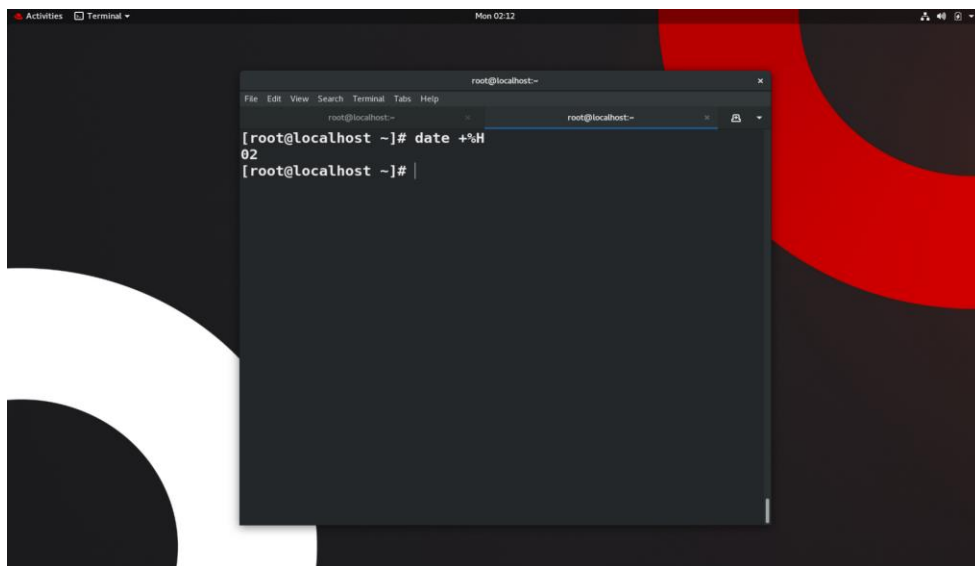
A terminal window titled 'root@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Tabs, Help). The prompt is '[root@localhost ~]#'. The user enters 'date +%F' and the output is '2021-09-20'. The prompt is '[root@localhost ~]#'.

```
root@localhost:~  
[root@localhost ~]# date +%F  
2021-09-20  
[root@localhost ~]#
```

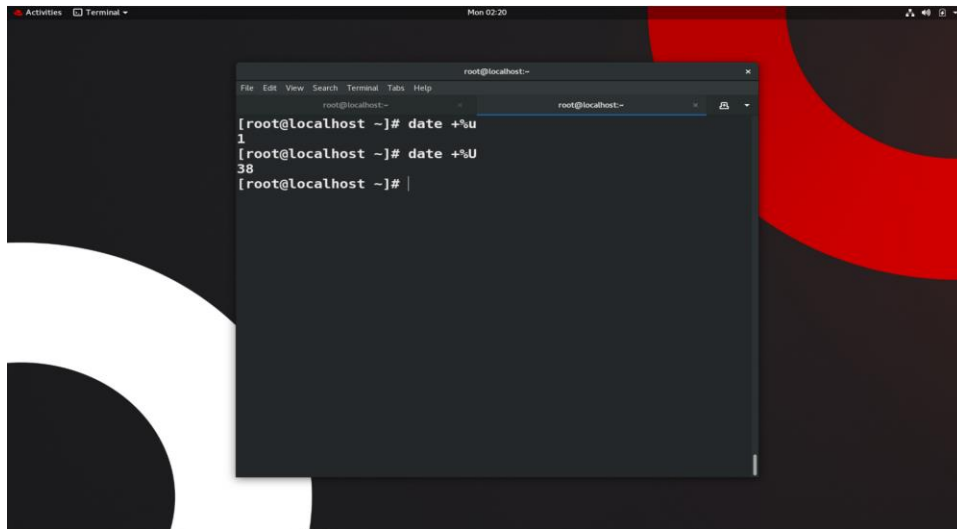
14) date +%g (show the last two digits of the year)

A terminal window titled 'root@localhost:~' is open. The command 'date +%g' has been entered and executed, resulting in the output '21'. The terminal window is layered over a desktop background with a dark theme and a large red circular graphic on the right side. The top of the window shows a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', 'Tabs', and 'Help'. The status bar at the top of the desktop indicates 'Mon 02:10'.

15) date +%H (show the hour of the time)

A terminal window titled 'root@localhost:~' is open. The command 'date +%H' has been entered and executed, resulting in the output '02'. The terminal window is layered over a desktop background with a dark theme and a large red circular graphic on the right side. The top of the window shows a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', 'Tabs', and 'Help'. The status bar at the top of the desktop indicates 'Mon 02:12'.

16) date +%u (show day of week) and date +%U (show week number of year)

A screenshot of a Linux desktop environment. The background is dark with large, abstract red and white curved shapes. A terminal window is open in the center, titled 'root@localhost:~'. The terminal shows the execution of the 'date' command with two different format specifiers. The first command is '[root@localhost ~]# date +%u', which outputs '1'. The second command is '[root@localhost ~]# date +%U', which outputs '38'. The prompt '[root@localhost ~]#' is visible at the end of the second line.

```
root@localhost:~  
File Edit View Search Terminal Tabs Help  
root@localhost:~ root@localhost:~  
[root@localhost ~]# date +%u  
1  
[root@localhost ~]# date +%U  
38  
[root@localhost ~]#
```