

Operating System

Lab Report

Lab 01



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Class	Operating System (BCE-5B)
Instructor's Name	Sir Wasif

In Lab Tasks

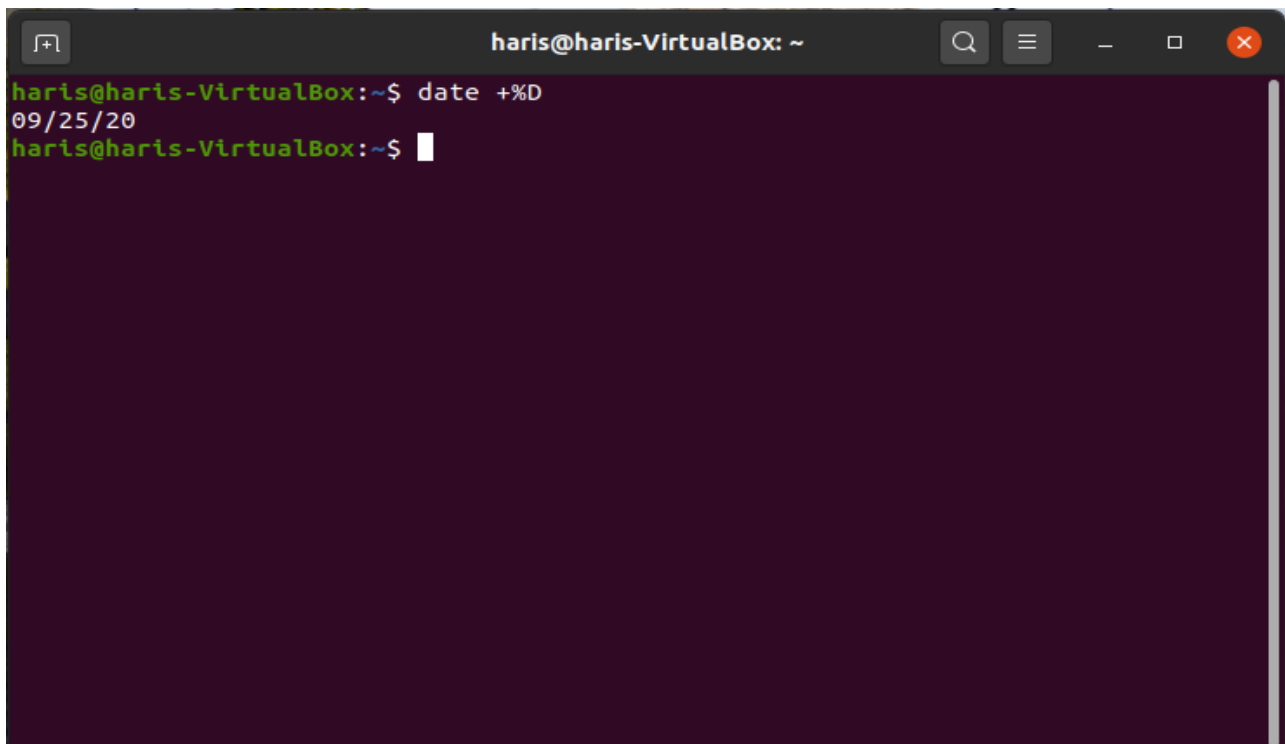
Question 1: Activity 1:

In this activity, you are required to perform tasks given below:

1. Display the current date
2. Display the calendar for the current year
3. Display the calendar of 2012
4. Display the calendar of Feb 2015

Solution:

- 1) The Terminal Output is given below,



```
haris@haris-VirtualBox: ~  
haris@haris-VirtualBox:~$ date +%D  
09/25/20  
haris@haris-VirtualBox:~$
```

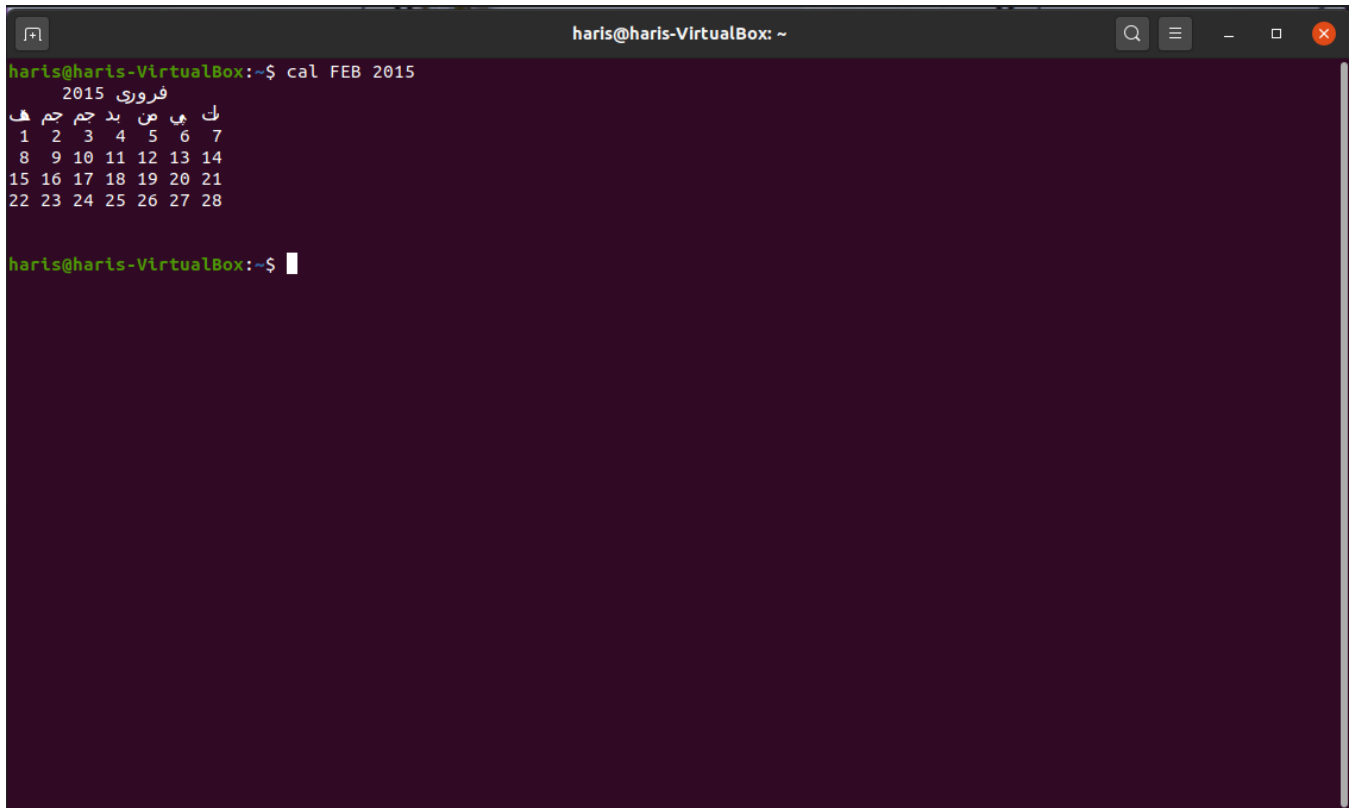
2) The Terminal Output is given below,

```
haris@haris-VirtualBox: ~  
haris@haris-VirtualBox:~$ cal 2020  
2020  
مارچ فروری جنوری  
ك ي من بد جم هـ ك ي من بد جم هـ ك ي من بد جم هـ  
1 2 3 4 1 1 2 3 4 5 6 7  
5 6 7 8 9 10 11 2 3 4 5 6 7 8 8 9 10 11 12 13 14  
12 13 14 15 16 17 18 9 10 11 12 13 14 15 15 16 17 18 19 20 21  
19 20 21 22 23 24 25 16 17 18 19 20 21 22 22 23 24 25 26 27 28  
26 27 28 29 30 31 23 24 25 26 27 28 29 29 30 31  
  
جون مئی اپریل  
ك ي من بد جم هـ ك ي من بد جم هـ ك ي من بد جم هـ  
1 2 3 4 1 2 1 2 3 4 5 6  
5 6 7 8 9 10 11 3 4 5 6 7 8 9 7 8 9 10 11 12 13  
12 13 14 15 16 17 18 10 11 12 13 14 15 16 14 15 16 17 18 19 20  
19 20 21 22 23 24 25 17 18 19 20 21 22 23 21 22 23 24 25 26 27  
26 27 28 29 30 24 25 26 27 28 29 30 28 29 30  
31  
  
ستمبر اگست جولائی  
ك ي من بد جم هـ ك ي من بد جم هـ ك ي من بد جم هـ  
1 2 3 4 1 1 2 3 4 5  
5 6 7 8 9 10 11 2 3 4 5 6 7 8 6 7 8 9 10 11 12  
12 13 14 15 16 17 18 9 10 11 12 13 14 15 13 14 15 16 17 18 19  
19 20 21 22 23 24 25 16 17 18 19 20 21 22 20 21 22 23 24 25 26  
26 27 28 29 30 31 23 24 25 26 27 28 29 27 28 29 30  
30 31  
  
فسمبر نومبر اکتوبر  
ك ي من بد جم هـ ك ي من بد جم هـ ك ي من بد جم هـ  
1 2 3 1 2 3 4 5 6 7 1 2 3 4 5  
4 5 6 7 8 9 10 8 9 10 11 12 13 14 6 7 8 9 10 11 12  
11 12 13 14 15 16 17 15 16 17 18 19 20 21 13 14 15 16 17 18 19  
18 19 20 21 22 23 24 22 23 24 25 26 27 28 20 21 22 23 24 25 26
```

3) The Terminal Output is given below,

```
haris@haris-VirtualBox: ~  
haris@haris-VirtualBox:~$ cal 2012  
2012  
مارچ فروری جنوری  
ك ي من بد جم هـ ك ي من بد جم هـ ك ي من بد جم هـ  
1 2 3 4 5 6 7 1 2 3 4 1 2 3  
8 9 10 11 12 13 14 5 6 7 8 9 10 11 4 5 6 7 8 9 10  
15 16 17 18 19 20 21 12 13 14 15 16 17 18 11 12 13 14 15 16 17  
22 23 24 25 26 27 28 19 20 21 22 23 24 25 18 19 20 21 22 23 24  
29 30 31 26 27 28 29 25 26 27 28 29 30 31  
  
جون مئی اپریل  
ك ي من بد جم هـ ك ي من بد جم هـ ك ي من بد جم هـ  
1 2 3 4 5 6 7 1 2 3 4 5 1 2  
8 9 10 11 12 13 14 6 7 8 9 10 11 12 3 4 5 6 7 8 9  
15 16 17 18 19 20 21 13 14 15 16 17 18 19 10 11 12 13 14 15 16  
22 23 24 25 26 27 28 20 21 22 23 24 25 26 17 18 19 20 21 22 23  
29 30 27 28 29 30 31 24 25 26 27 28 29 30  
  
ستمبر اگست جولائی  
ك ي من بد جم هـ ك ي من بد جم هـ ك ي من بد جم هـ  
1 2 3 4 5 6 7 1 2 3 4 1  
8 9 10 11 12 13 14 5 6 7 8 9 10 11 2 3 4 5 6 7 8  
15 16 17 18 19 20 21 12 13 14 15 16 17 18 9 10 11 12 13 14 15  
22 23 24 25 26 27 28 19 20 21 22 23 24 25 16 17 18 19 20 21 22  
29 30 31 26 27 28 29 30 31 23 24 25 26 27 28 29  
30  
  
فسمبر نومبر اکتوبر  
ك ي من بد جم هـ ك ي من بد جم هـ ك ي من بد جم هـ  
1 2 3 4 5 6 1 2 3 1  
7 8 9 10 11 12 13 4 5 6 7 8 9 10 2 3 4 5 6 7 8  
14 15 16 17 18 19 20 11 12 13 14 15 16 17 9 10 11 12 13 14 15  
21 22 23 24 25 26 27 18 19 20 21 22 23 24 16 17 18 19 20 21 22
```

4) The Terminal Output is given below,



```
haris@haris-VirtualBox: ~  
haris@haris-VirtualBox:~$ cal FEB 2015  
      2015 فروری  
  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  
  
haris@haris-VirtualBox:~$
```

The image shows a terminal window with a dark purple background. The window title is "haris@haris-VirtualBox: ~". The user has entered the command "cal FEB 2015". The output displays a calendar for February 2015 in Urdu. It shows the days of the week in Urdu (آدھ، بدھ، جمعہ، جمعہ، بدھ، جمعہ, جمعہ) and the dates from 1 to 28. The terminal prompt is "haris@haris-VirtualBox:~\$".

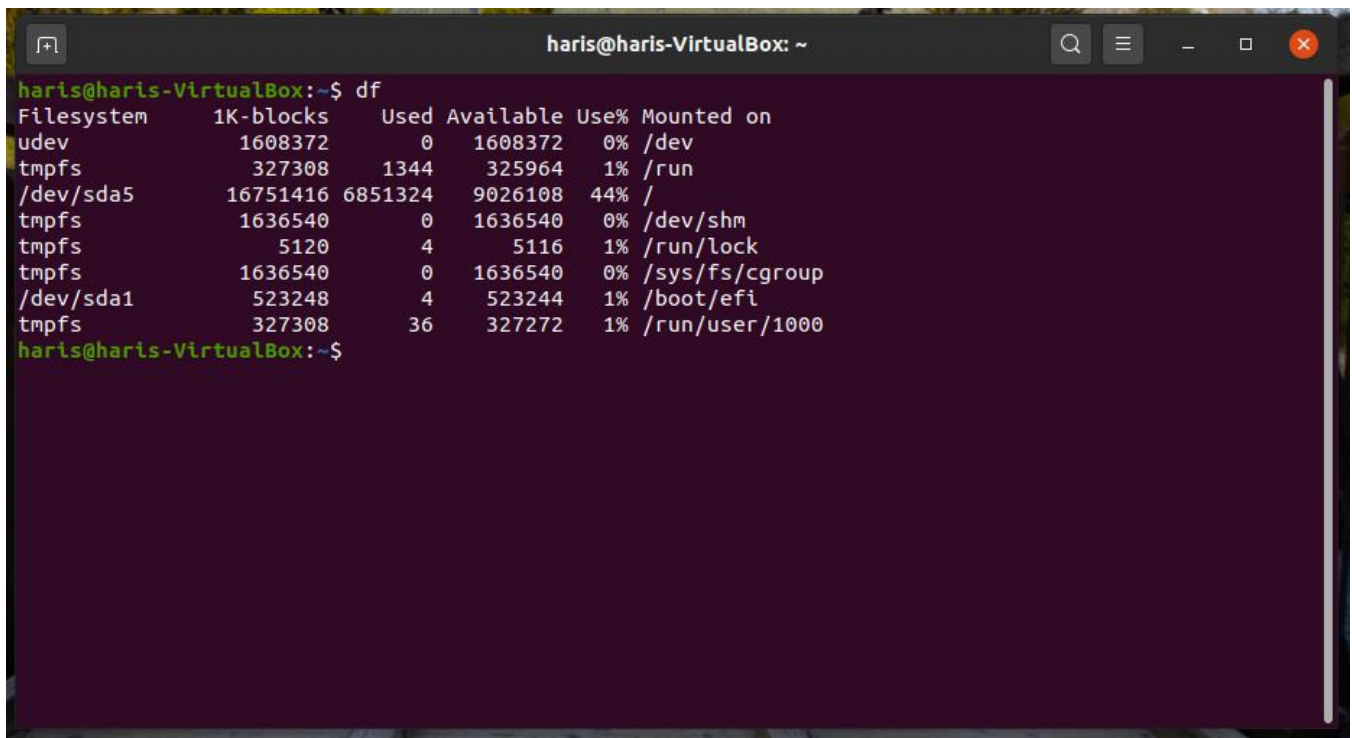
Question 2: Activity 2:

Perform the following tasks using Linux CLI commands

1. Display the amount of free storage on your machine
2. Display the amount of free memory on your machine
3. Display the username of the current user
4. Open the man of date free command

Solution:

1) The Terminal Output is given below,

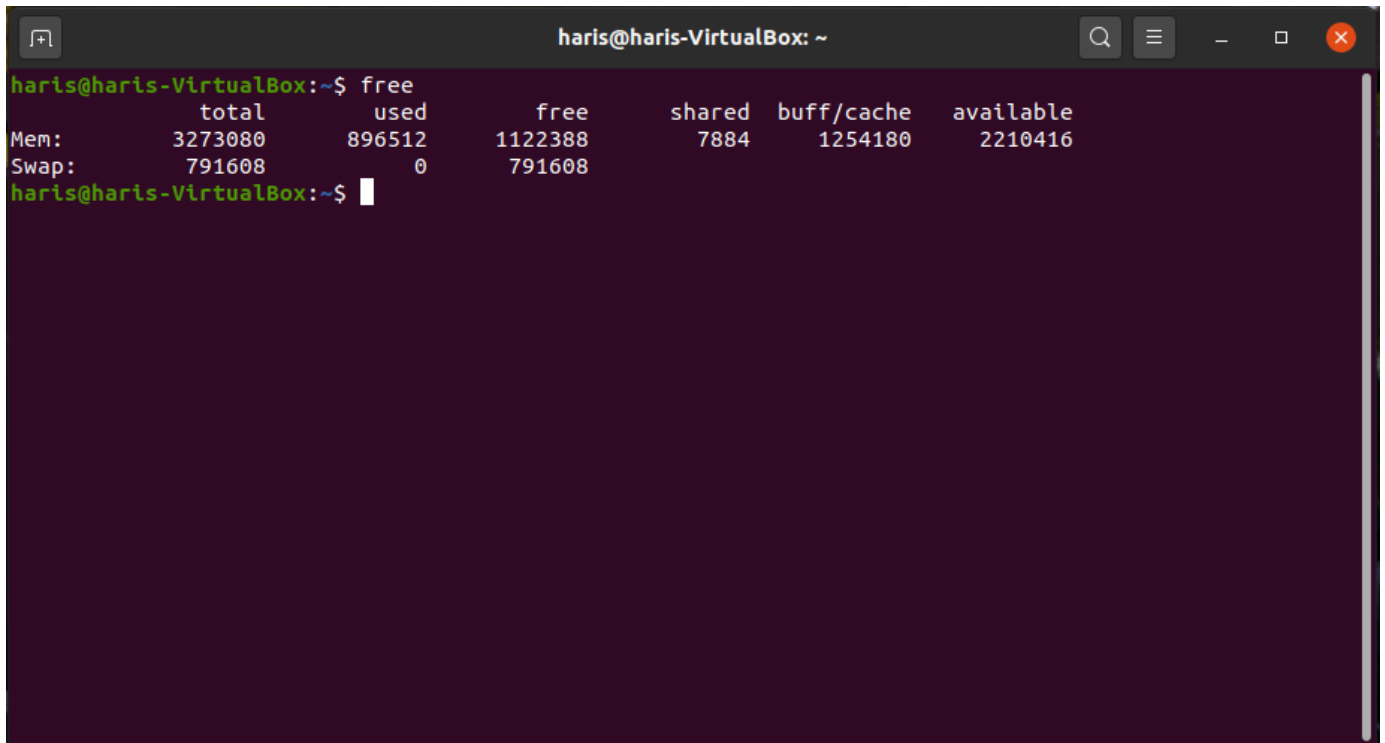


A terminal window titled 'haris@haris-VirtualBox: ~' showing the output of the 'df' command. The output is a table with columns: Filesystem, 1K-blocks, Used, Available, Use%, and Mounted on. The data rows are as follows:

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
udev	1608372	0	1608372	0%	/dev
tmpfs	327308	1344	325964	1%	/run
/dev/sda5	16751416	6851324	9026108	44%	/
tmpfs	1636540	0	1636540	0%	/dev/shm
tmpfs	5120	4	5116	1%	/run/lock
tmpfs	1636540	0	1636540	0%	/sys/fs/cgroup
/dev/sda1	523248	4	523244	1%	/boot/efi
tmpfs	327308	36	327272	1%	/run/user/1000

The terminal prompt is 'haris@haris-VirtualBox:~\$'.

2) The Terminal Output is given below,



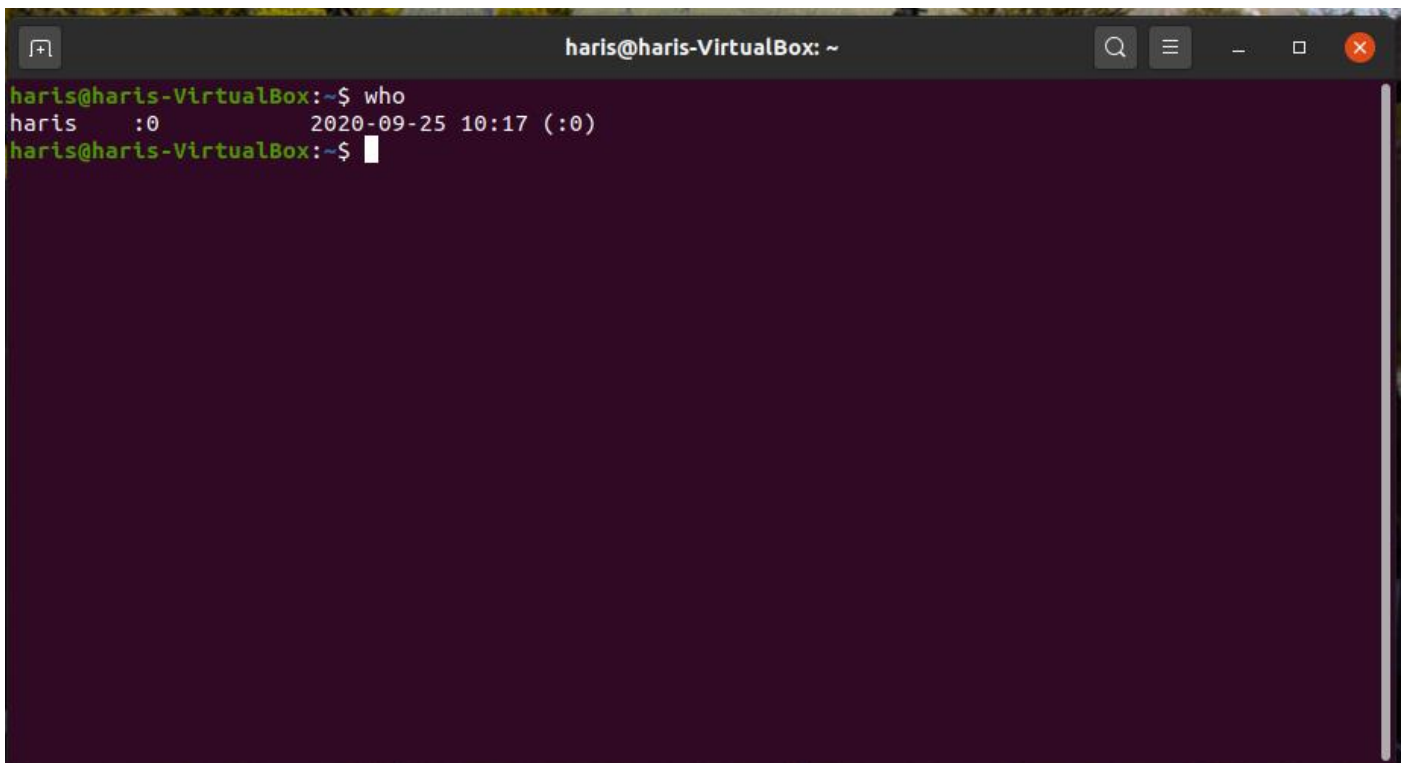
A terminal window titled "haris@haris-VirtualBox: ~" with standard window controls. The terminal shows the command "free" being executed, which displays system memory usage statistics in a table format.

```
haris@haris-VirtualBox:~$ free
```

	total	used	free	shared	buff/cache	available
Mem:	3273080	896512	1122388	7884	1254180	2210416
Swap:	791608	0	791608			

```
haris@haris-VirtualBox:~$
```

3) The Terminal Output is given below,



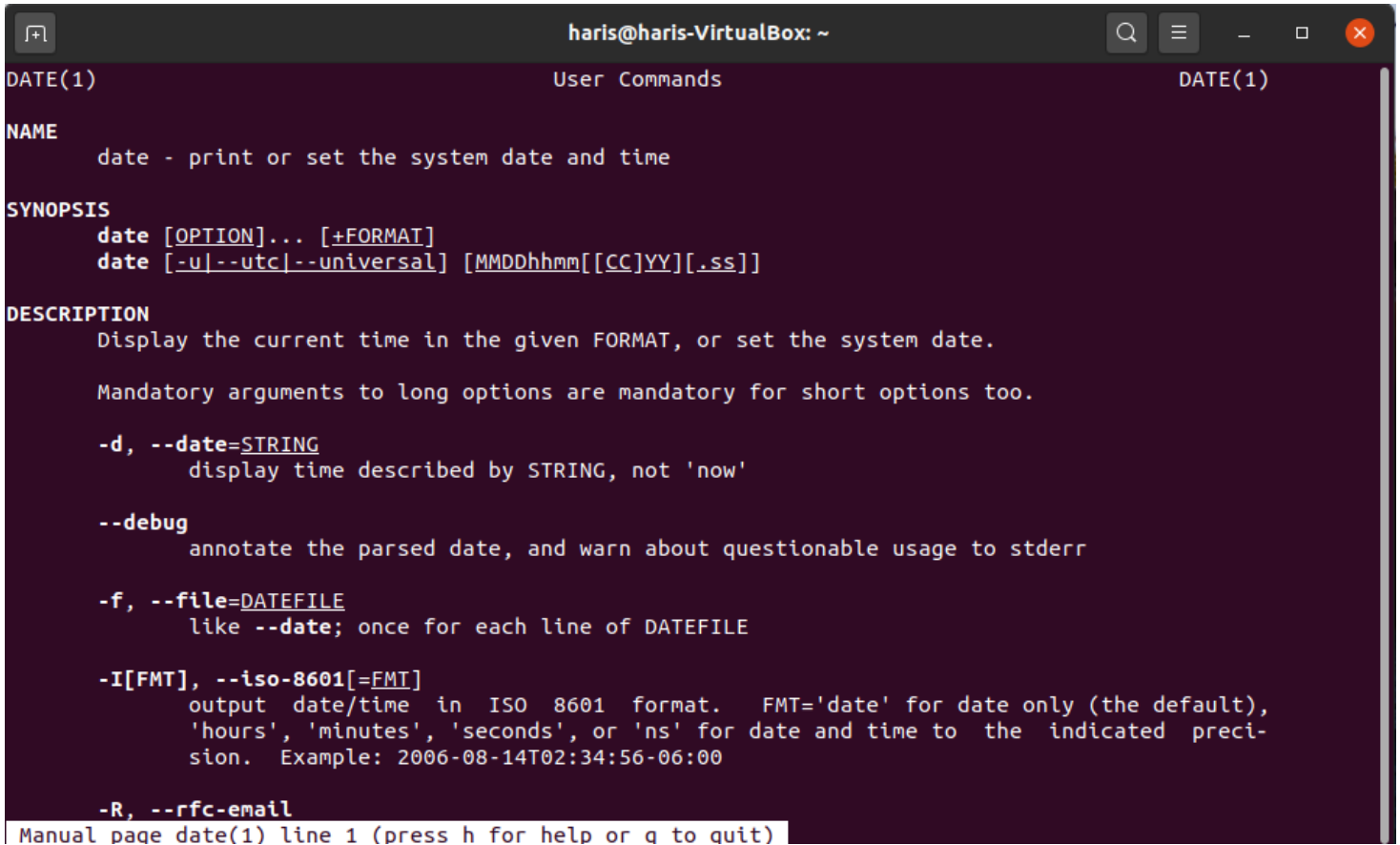
A terminal window titled "haris@haris-VirtualBox: ~" with standard window controls. The terminal shows the command "who" being executed, which displays information about users currently logged into the system.

```
haris@haris-VirtualBox:~$ who
```

haris	:0	2020-09-25 10:17 (:0)
-------	----	-----------------------

```
haris@haris-VirtualBox:~$
```

4) The Terminal Output is given below,



```
haris@haris-VirtualBox: ~
DATE(1)                                User Commands                                DATE(1)

NAME
    date - print or set the system date and time

SYNOPSIS
    date [OPTION]... [+FORMAT]
    date [-u|--utc|--universal] [MMDDhhmm[[CC]YY][.ss]]

DESCRIPTION
    Display the current time in the given FORMAT, or set the system date.

    Mandatory arguments to long options are mandatory for short options too.

    -d, --date=STRING
        display time described by STRING, not 'now'

    --debug
        annotate the parsed date, and warn about questionable usage to stderr

    -f, --file=DATEFILE
        like --date; once for each line of DATEFILE

    -I[FMT], --iso-8601[=FMT]
        output date/time in ISO 8601 format.  FMT='date' for date only (the default),
        'hours', 'minutes', 'seconds', or 'ns' for date and time to the indicated preci-
        sion.  Example: 2006-08-14T02:34:56-06:00

    -R, --rfc-email
Manual page date(1) line 1 (press h for help or q to quit)
```

POST LAB (Home Activities)

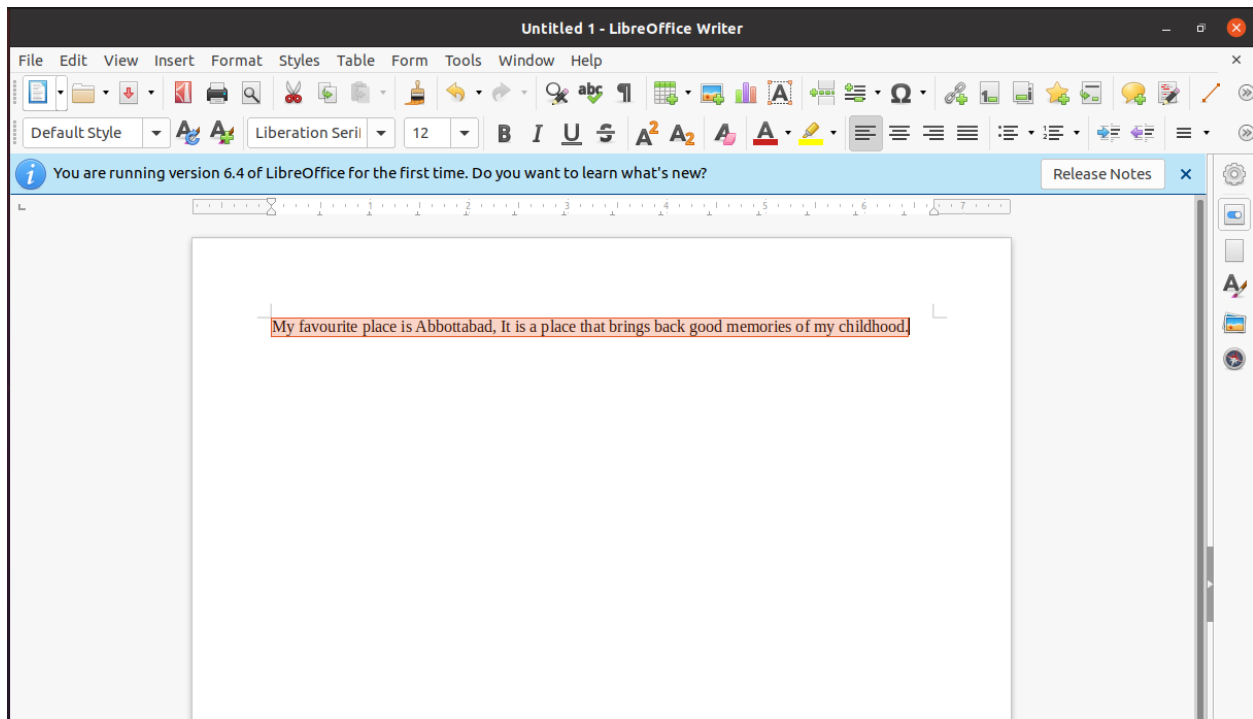
6.1 Question 1:

In GUI open the Libre Office writer tool create a document that contains information about your favorite place. Try the following short- keys while formatting the document.

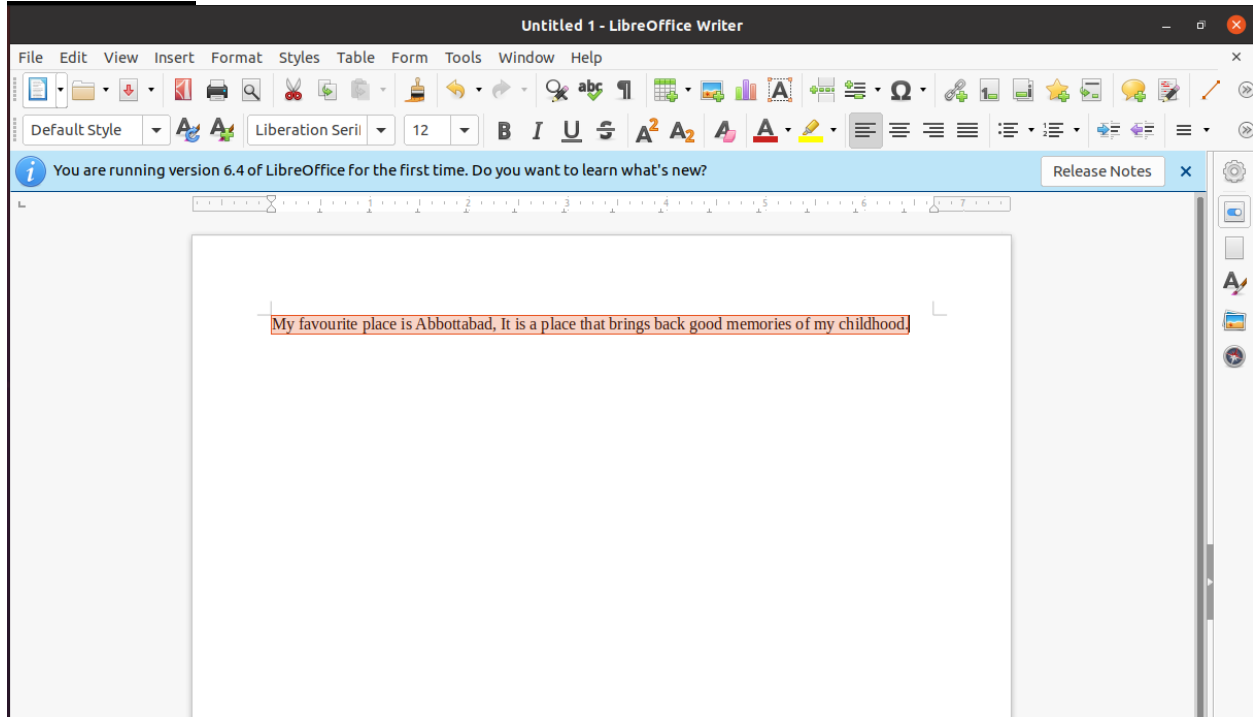
Solution:

The solution is given below,

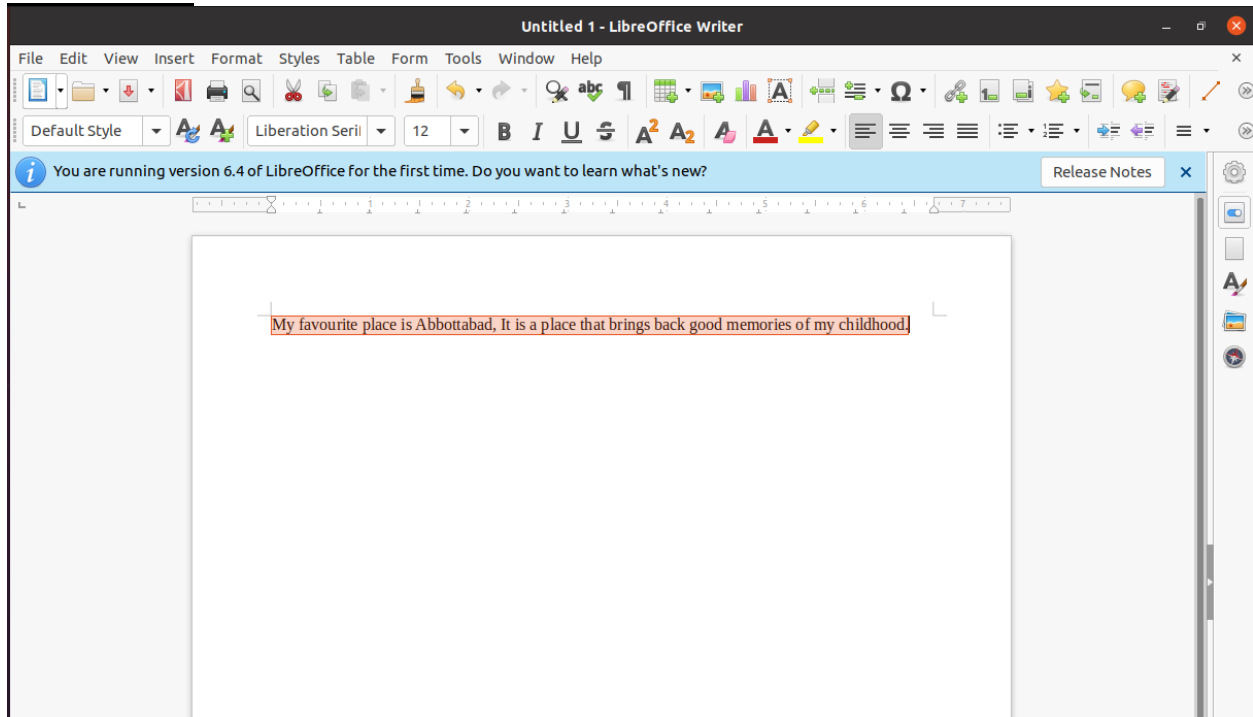
Ctrl + C:



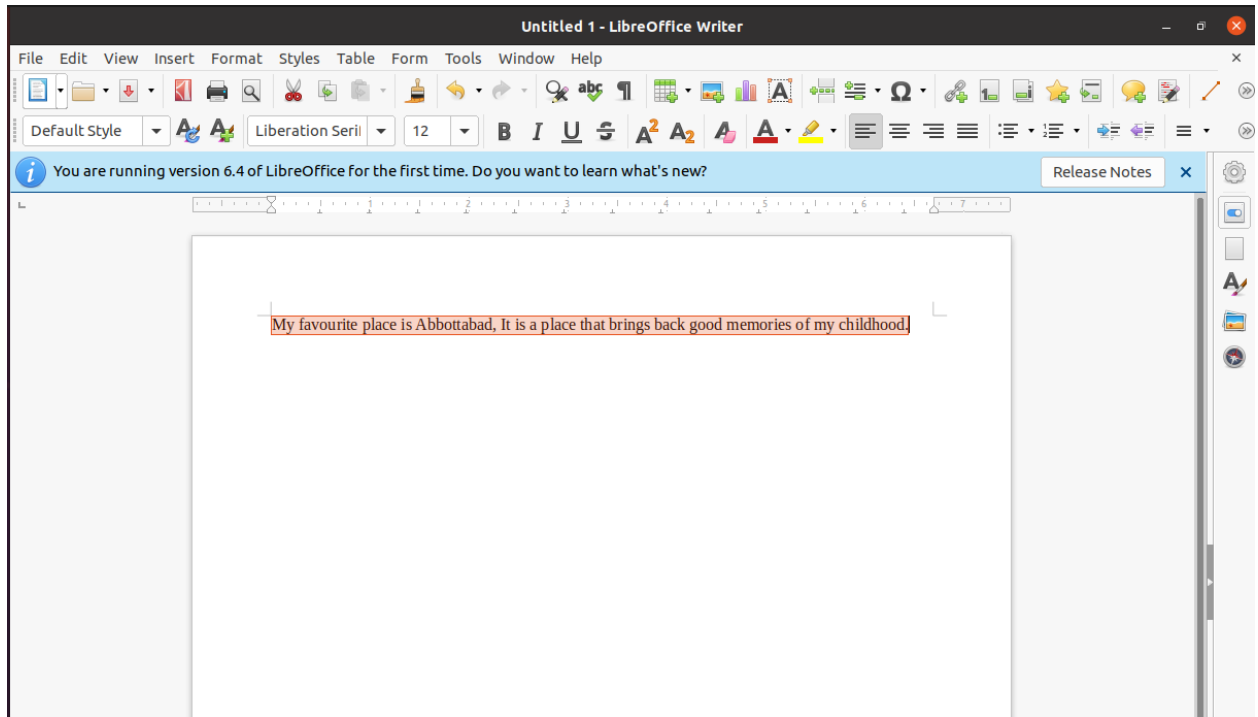
Ctrl + X:



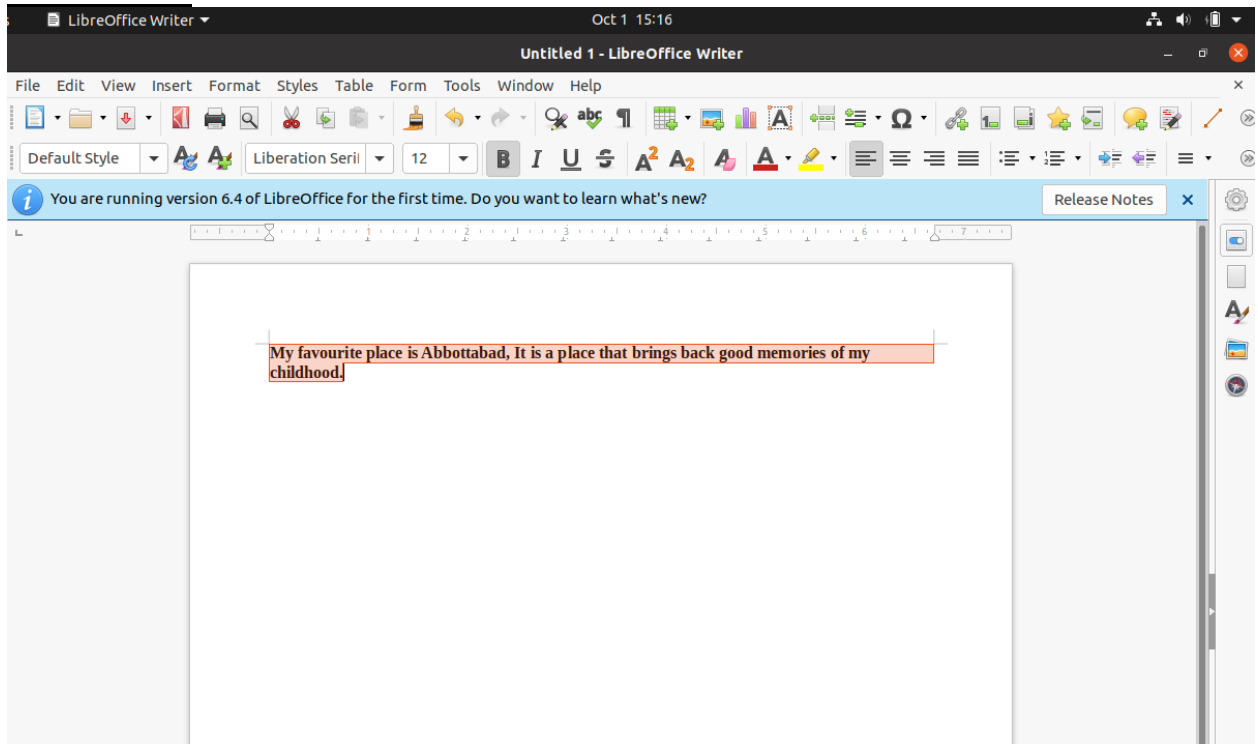
Ctrl + V:



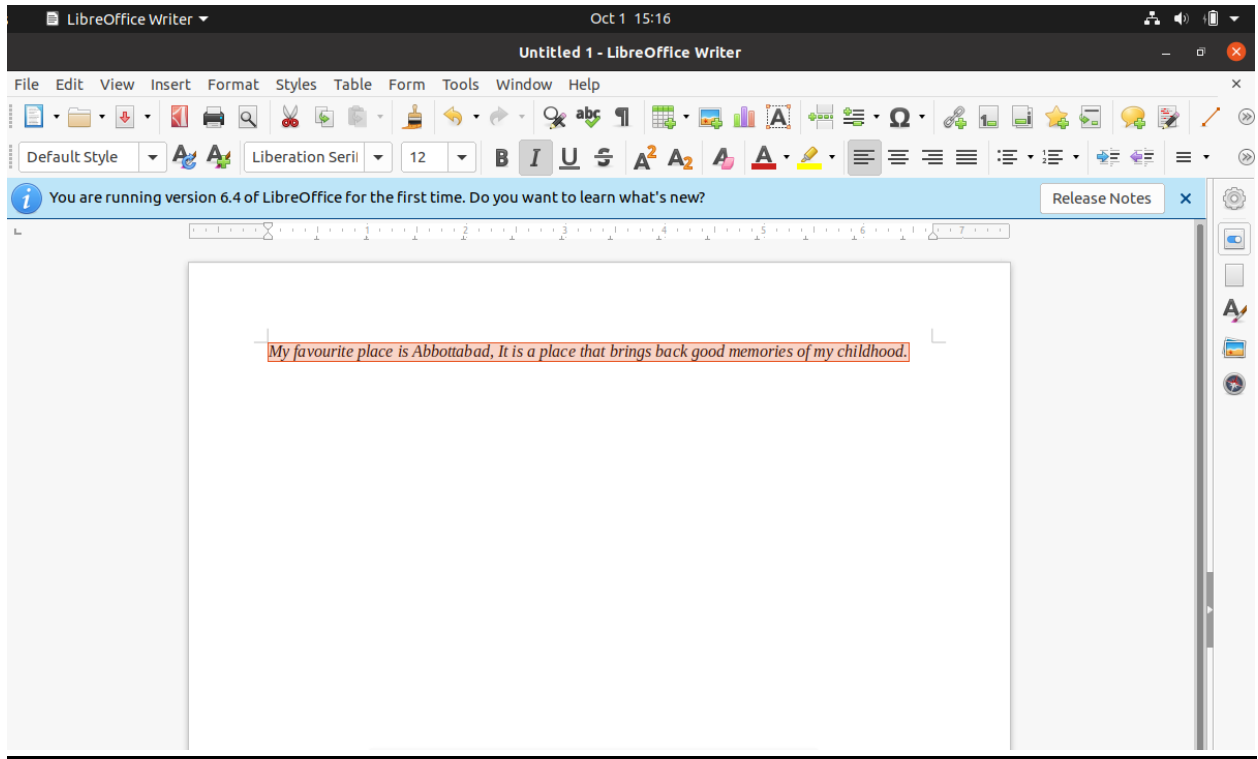
Ctrl + A:



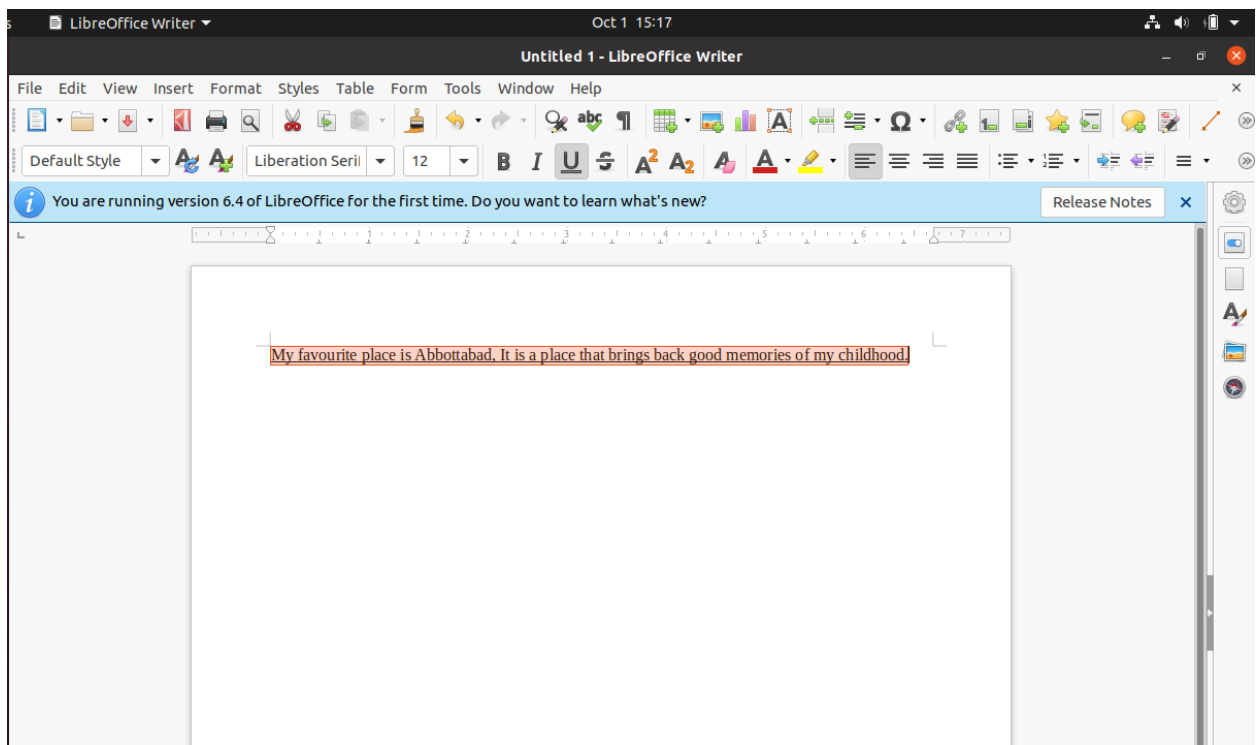
Ctrl + B:



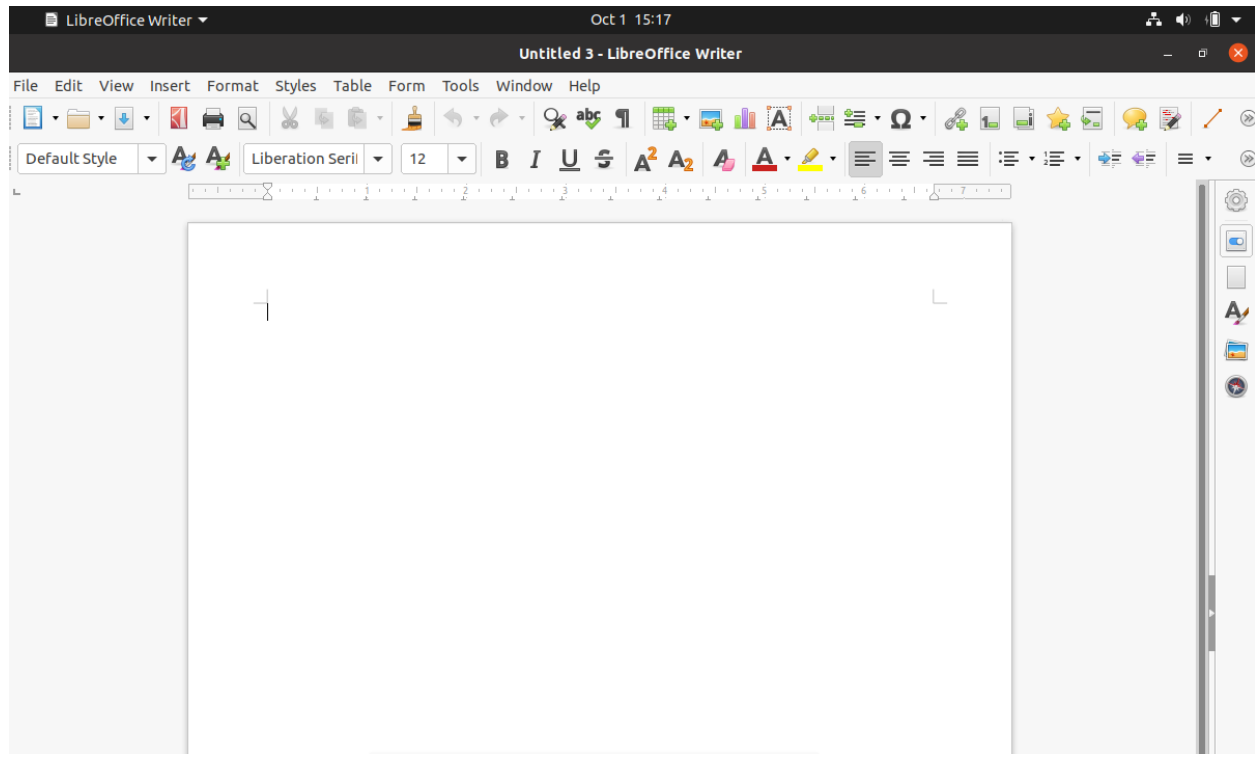
Ctrl + I:



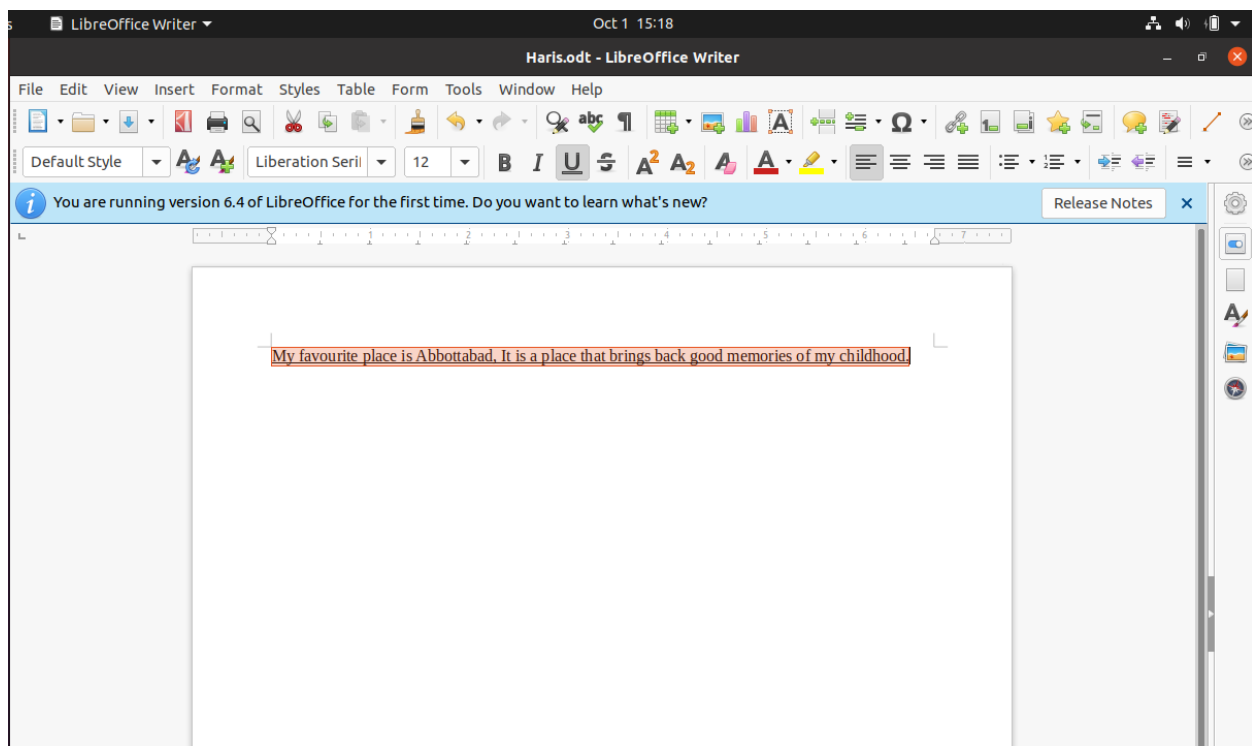
Ctrl + U:



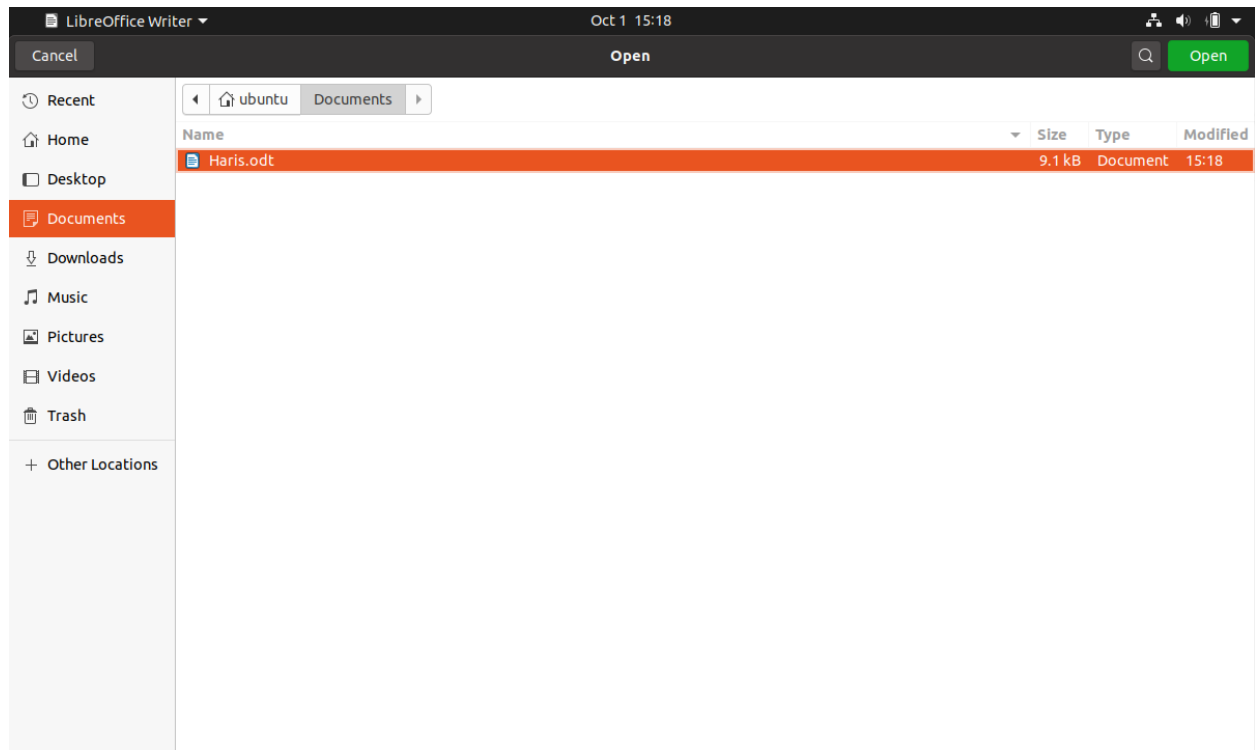
Ctrl + N:



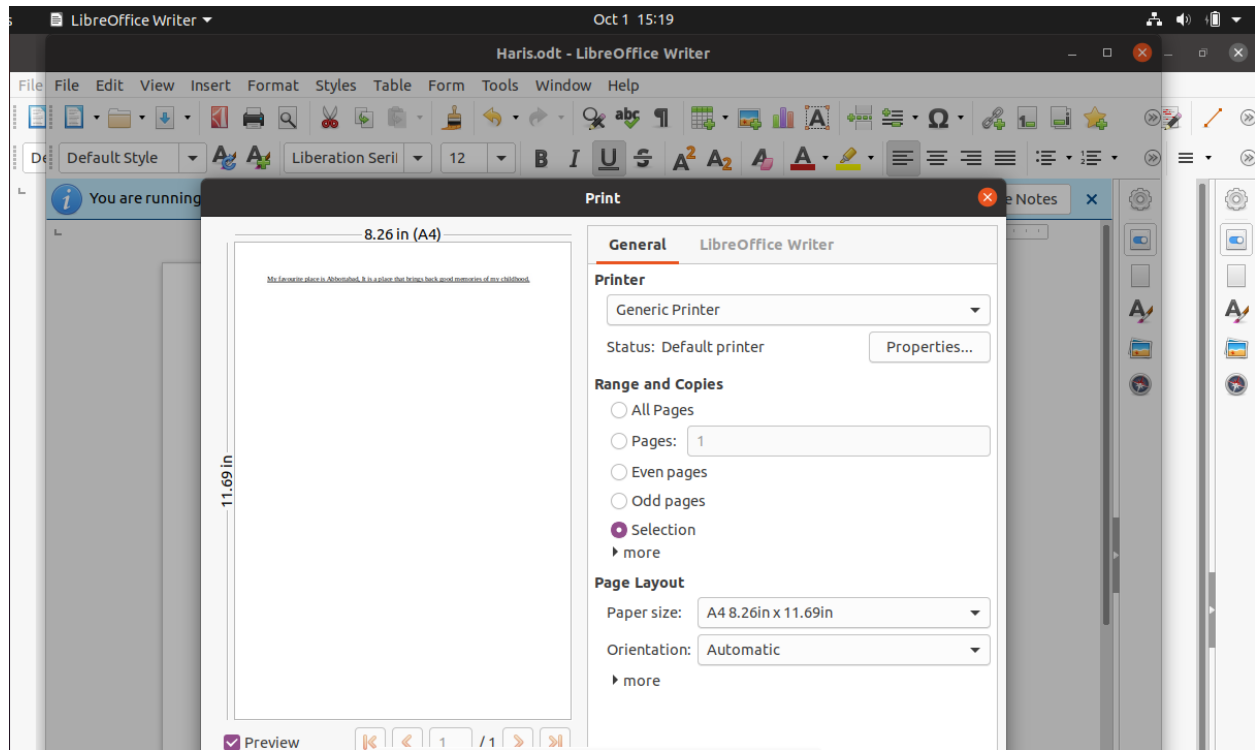
Ctrl + S:



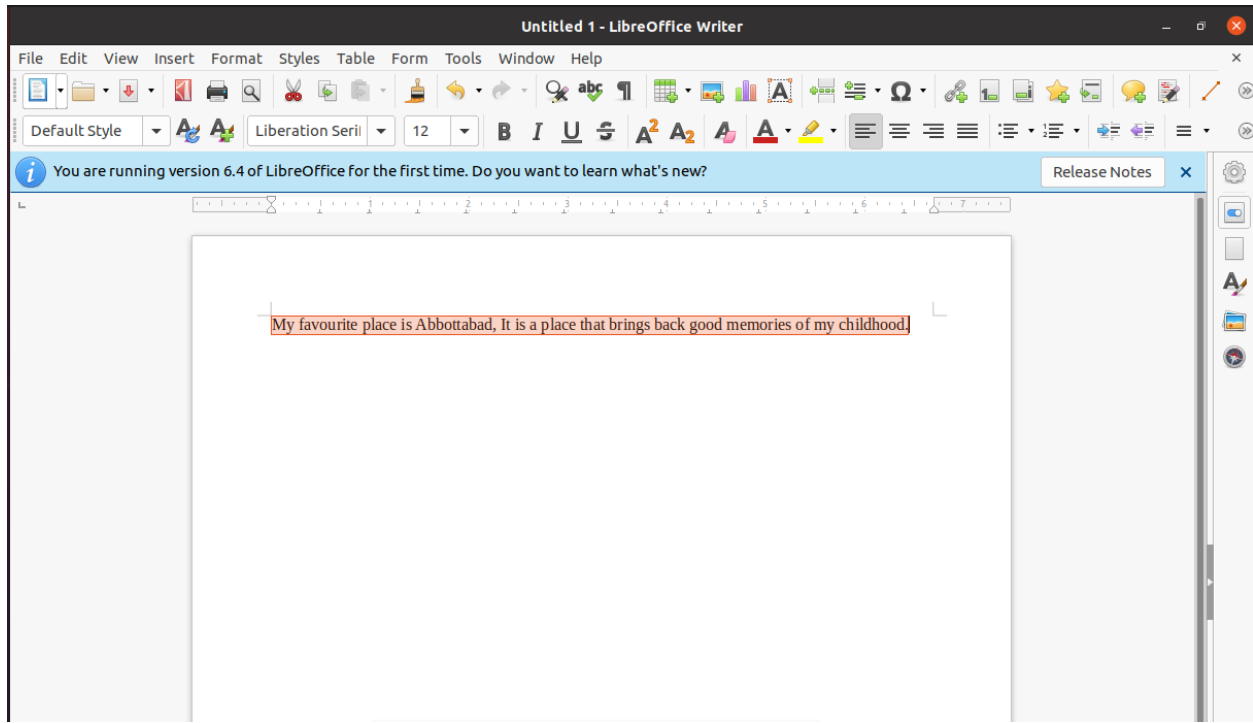
Ctrl + O:



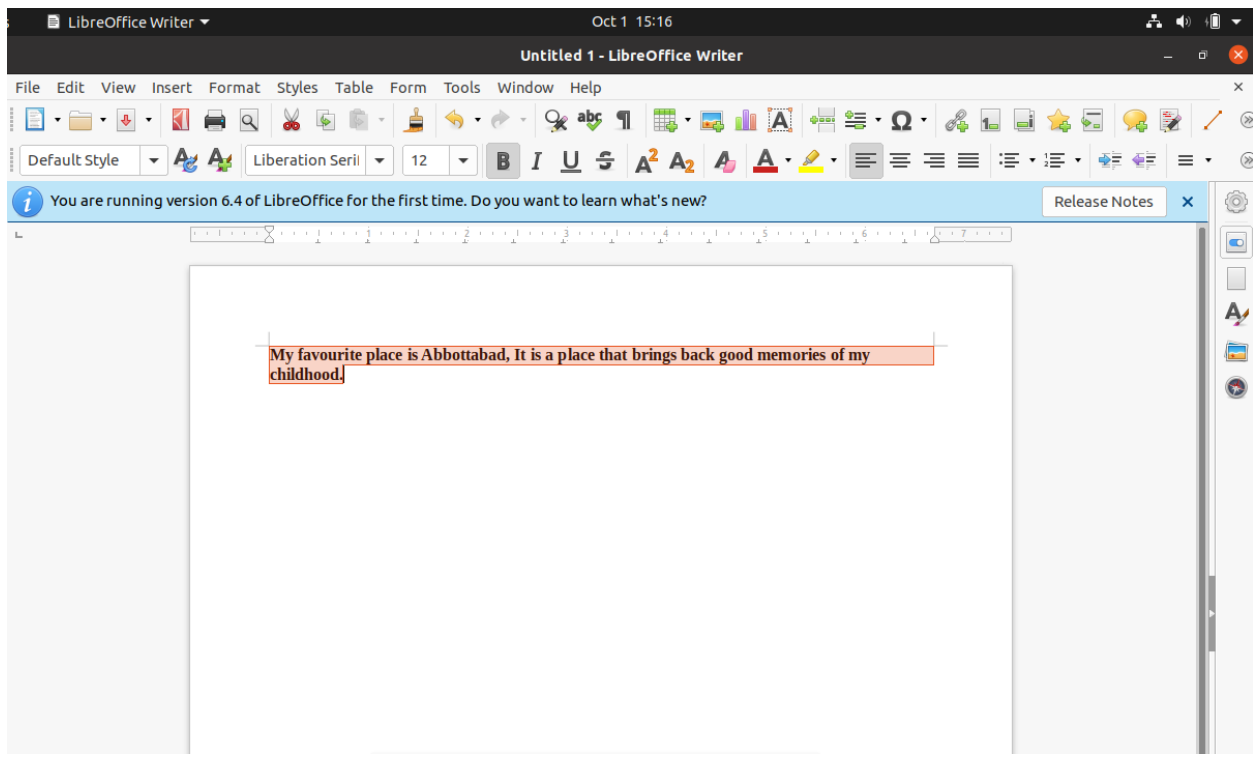
Ctrl + P:



Ctrl + Z:



Ctrl + Shift + Z:



____THE END____

