```
1 NAME - B RAMA KRISHANA
2 ROLL - 422123
3 SEC  - A
```

student@ai-HP-ProDesk-600-G4-MT: ~/Desktop

File Edit View Search Terminal Help

```
student@ai-HP-ProDesk-600-G4-MT:~$ cd /home/student/Desktop
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat number.txt
1
2
3
4
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr numbers.txt
pr: numbers.txt: No such file or directory
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr number.txt


2024-02-14 15:01                    number.txt                    Page 1


1
2
3
4
5
6
7
8
9
10
```

File Edit View Search Terminal Help

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr -t number.txt
1
2
3
4
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat number.txt
1
2
3
4
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr -d number.txt


2024-02-14 15:01                    number.txt                    Page 1


1

2

3

4

5

6
```

File Edit View Search Terminal Help

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr --version
pr (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 Pete TerMaat and Roland Huebner.
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr --help
Usage: pr [OPTION]... [FILE]...
Paginate or columnate FILE(s) for printing.

With no FILE, or when FILE is -, read standard input.

Mandatory arguments to long options are mandatory for short options too.
  +FIRST_PAGE[:LAST_PAGE], --pages=FIRST_PAGE[:LAST_PAGE]
                    begin [stop] printing with page FIRST_[LAST_]PAGE
  -COLUMN, --columns=COLUMN
                    output COLUMN columns and print columns down,
                    unless -a is used. Balance number of lines in the
                    columns on each page
  -a, --across      print columns across rather than down, used together
                    with -COLUMN
  -c, --show-control-chars
                    use hat notation (^G) and octal backslash notation
  -d, --double-space
                    double space the output
  -D, --date-format=FORMAT
                    use FORMAT for the header date
  -e[CHAR[WIDTH]], --expand-tabs[=CHAR[WIDTH]]
                    expand input CHARs (TABs) to tab WIDTH (8)
  -F, -f, --form-feed
                    use form feeds instead of newlines to separate pages
                    (by a 3-line page header with -F or a 5-line header
                    and trailer without -F)
  -h, --header=HEADER
                    use a centered HEADER instead of filename in page header,
                    -h "" prints a blank line, don't use -h""
  -i[CHAR[WIDTH]], --output-tabs[=CHAR[WIDTH]]
```

File Edit View Search Terminal Help

```
-i[CHAR[WIDTH]], --output-tabs[=CHAR[WIDTH]]
                    replace spaces with CHARs (TABs) to tab WIDTH (8)
-J, --join-lines  merge full lines, turns off -W line truncation, no column
                    alignment, --sep-string[=STRING] sets separators
-l, --length=PAGE_LENGTH
                    set the page length to PAGE_LENGTH (66) lines
                    (default number of lines of text 56, and with -F 63).
                    implies -t if PAGE_LENGTH <= 10
-m, --merge        print all files in parallel, one in each column,
                    truncate lines, but join lines of full length with -J
-n[SEP[DIGITS]], --number-lines[=SEP[DIGITS]]
                    number lines, use DIGITS (5) digits, then SEP (TAB),
                    default counting starts with 1st line of input file
-N, --first-line-number=NUMBER
                    start counting with NUMBER at 1st line of first
                    page printed (see +FIRST_PAGE)
-o, --indent=MARGIN
                    offset each line with MARGIN (zero) spaces, do not
                    affect -w or -W, MARGIN will be added to PAGE_WIDTH
-r, --no-file-warnings
                    omit warning when a file cannot be opened
-s[CHAR], --separator[=CHAR]
                    separate columns by a single character, default for CHAR
                    is the <TAB> character without -w and 'no char' with -w.
                    -s[CHAR] turns off line truncation of all 3 column
                    options (-COLUMN|-a -COLUMN|-m) except -w is set
-S[STRING], --sep-string[=STRING]
                    separate columns by STRING,
                    without -S: Default separator <TAB> with -J and <space>
                    otherwise (same as -S" "), no effect on column options
-t, --omit-header  omit page headers and trailers;
                     implied if PAGE_LENGTH <= 10
-T, --omit-pagination
                    omit page headers and trailers, eliminate any pagination
                    by form feeds set in input files
-v, --show-nonprinting
                    use octal backslash notation
-w, --width=PAGE_WIDTH
                    set page width to PAGE_WIDTH (72) characters for
                    multiple text-column output only, -s[char] turns off (72)
-W  --page-width=PAGE WIDTH
```

student@ai-HP-ProDesk-600-G4-MT: ~/Desktop

File   Edit   View   Search   Terminal   Help

```
-W, --page-width=PAGE_WIDTH
                set page width to PAGE_WIDTH (72) characters always,
                truncate lines, except -J option is set, no interference
                with -S or -s
    --help     display this help and exit
    --version  output version information and exit

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Full documentation at: <https://www.gnu.org/software/coreutils/pr>
or available locally via: info '(coreutils) pr invocation'
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pr -3 number.txt


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1                    5                    8
2                    6                    9
3                    7                    10
4
```
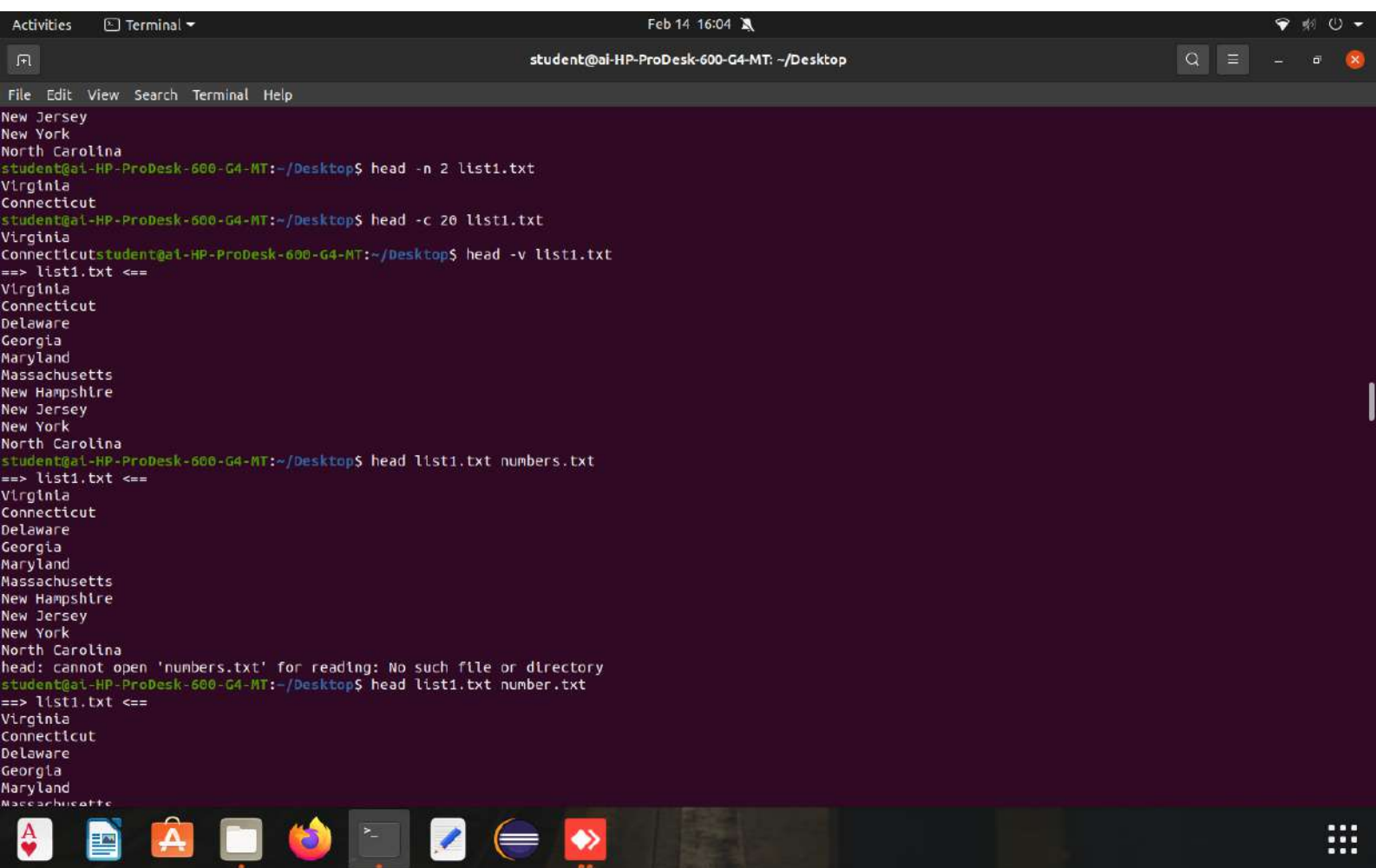
```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ !cat list1.txt
cat number.txt list1.txt
1
2
3
4
5
6
7
8
9
10
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ !head list1.txt
bash: !head: event not found
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ !head -n 2 list1.txt
bash: !head: event not found
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ^C
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
```

student@ai-HP-ProDesk-600-G4-MT: ~/Desktop

File Edit View Search Terminal Help

```
New Jersey
New York
North Carolina
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head -n 2 list1.txt
Virginia
Connecticut
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head -c 20 list1.txt
Virginia
Connecticutstudent@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head -v list1.txt
==> list1.txt <==
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head list1.txt numbers.txt
==> list1.txt <==
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
head: cannot open 'numbers.txt' for reading: No such file or directory
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head list1.txt number.txt
==> list1.txt <==
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
```

```
Massachusetts
New Hampshire
New Jersey
New York
North Carolina

==> number.txt <==
1
2
3
4
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ head number.txt > out_number.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat out_number.txt
1
2
3
4
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ tail +5 out_number.txt
5
6
7
8
9
10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls
421151_cn_assignment_1.odt  622223   a.out       fifo_client    fifo_server.c  mq_client.c  ms_client  nv1.c        out_number.txt  server.c    sm_client.c
422124                      622259   client      fifo_client.c  list1.txt      mq_server    mul1.c     nv.txt       readerwriter.c  shm.c       sm_server
622124                               abc.txt     client.c       fifo_server    mq_client    mq_server.c  mul.c      number.txt      server      sm_client   sm_server.c
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat list1.txt
```
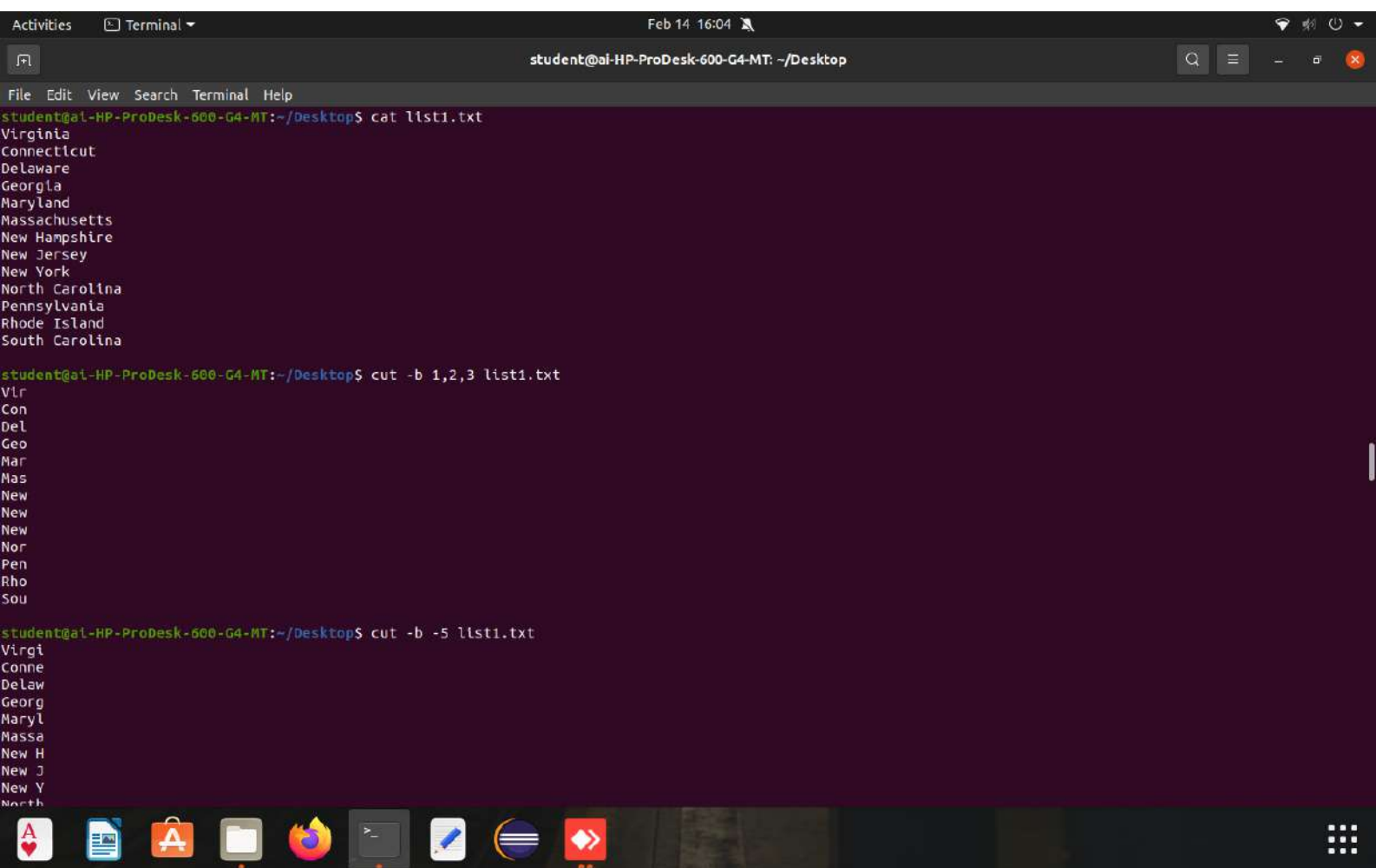
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop

File Edit View Search Terminal Help

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cut -b 1,2,3 list1.txt
Vir
Con
Del
Geo
Mar
Mas
New
New
New
Nor
Pen
Rho
Sou

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cut -b -5 list1.txt
Virgi
Conne
Delaw
Georg
Maryl
Massa
New H
New J
New Y
Nocth
```

student@ai-HP-ProDesk-600-G4-MT: ~/Desktop

File Edit View Search Terminal Help

```
North
Penns
Rhode
South
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cut -c 3-7 list1.txt
rgini
nnect
lawar
orgia
rylan
ssach
w Ham
w Jer
w Yor
rth C
nnsyl
ode I
uth C

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls
421151_cn_assignment_1.odt  622223    a.out         fifo_client    fifo_server.c  mq_client.c  ms_client  nv1.c       out_number.txt  server.c   sm_client.c
422124                      622259    client        fifo_client.c  list1.txt      mq_server    mul1.c     nv.txt      readerwriter.c  shm.c      sm_server
422124                                abc.txt  client.c  fifo_server    mq_client      mq_server.c  mul.c      number.txt  server          sm_client  sm_server.c
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ paste list1.txt number.txt
Virginia        1
Connecticut     2
Delaware        3
Georgia 4
Maryland        5
Massachusetts   6
New Hampshire   7
New Jersey      8
New York        9
North Carolina  10
Pennsylvania
Rhode Island
South Carolina

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ paste -d "/," list1.txt number.txt number.txt
Virginia/1,1
```
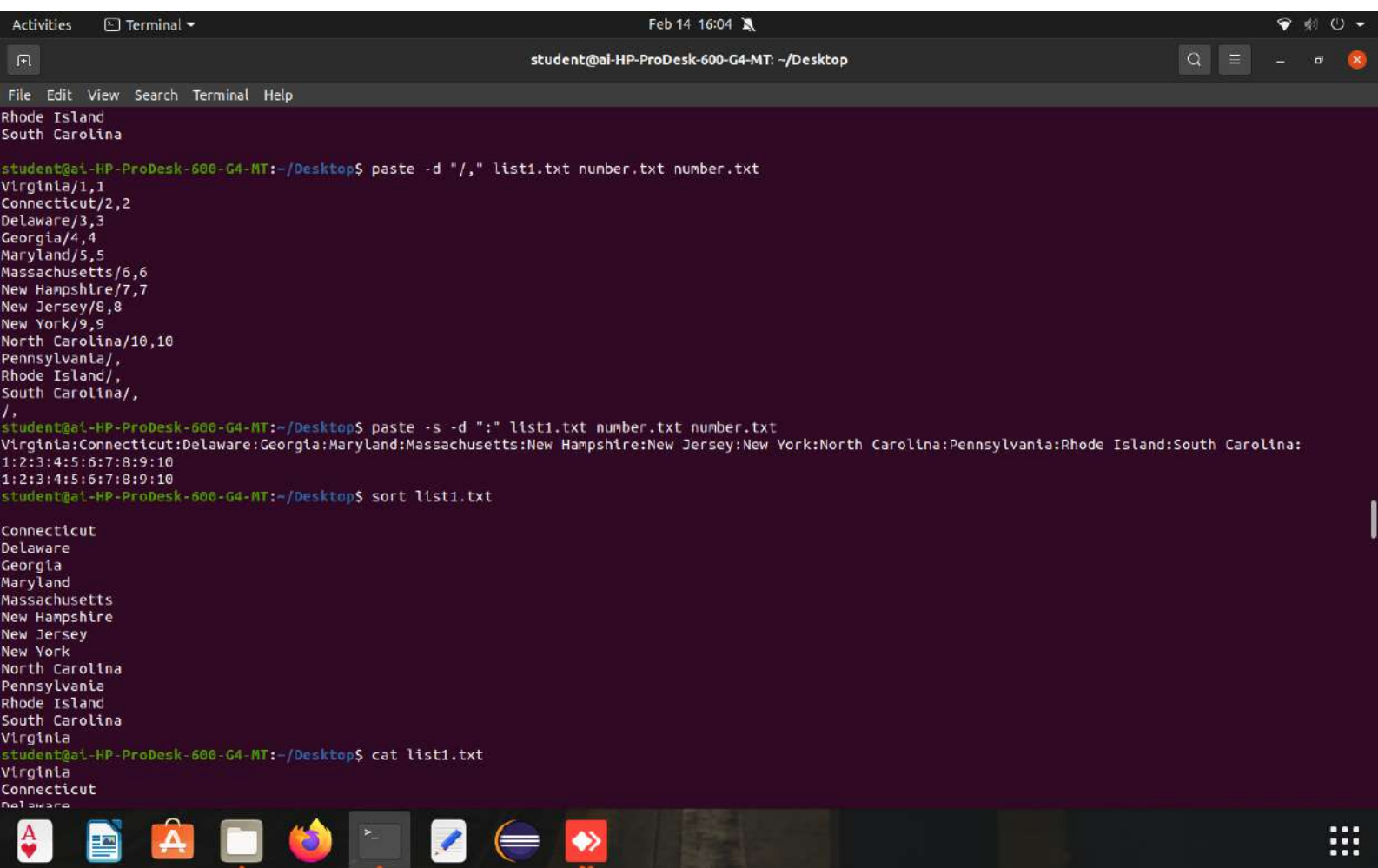
```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop

File  Edit  View  Search  Terminal  Help
Rhode Island
South Carolina

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ paste -d "/," list1.txt number.txt number.txt
Virginia/1,1
Connecticut/2,2
Delaware/3,3
Georgia/4,4
Maryland/5,5
Massachusetts/6,6
New Hampshire/7,7
New Jersey/8,8
New York/9,9
North Carolina/10,10
Pennsylvania/,
Rhode Island/,
South Carolina/,
/,
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ paste -s -d ":" list1.txt number.txt number.txt
Virginia:Connecticut:Delaware:Georgia:Maryland:Massachusetts:New Hampshire:New Jersey:New York:North Carolina:Pennsylvania:Rhode Island:South Carolina:
1:2:3:4:5:6:7:8:9:10
1:2:3:4:5:6:7:8:9:10
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ sort list1.txt

Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina
Virginia
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat list1.txt
Virginia
Connecticut
Delaware
```

student@ai-HP-ProDesk-600-G4-MT: ~/Desktop

File Edit View Search Terminal Help

```
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ sort -r list1.txt
Virginia
South Carolina
Rhode Island
Pennsylvania
North Carolina
New York
New Jersey
New Hampshire
Massachusetts
Maryland
Georgia
Delaware
Connecticut

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina
```

student@ai-HP-ProDesk-600-G4-MT: ~/Desktop

File Edit View Search Terminal Help
South Carolina

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ uniq list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ uniq -c list2.txt
uniq: list2.txt: No such file or directory
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ uniq -c list1.txt
      1 Virginia
      1 Connecticut
      1 Delaware
      1 Georgia
      1 Maryland
      1 Massachusetts
      1 New Hampshire
      1 New Jersey
      1 New York
      1 North Carolina
      1 Pennsylvania
      1 Rhode Island
      1 South Carolina
      1
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ uniq -d list1.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ connecticut
connecticut: command not found
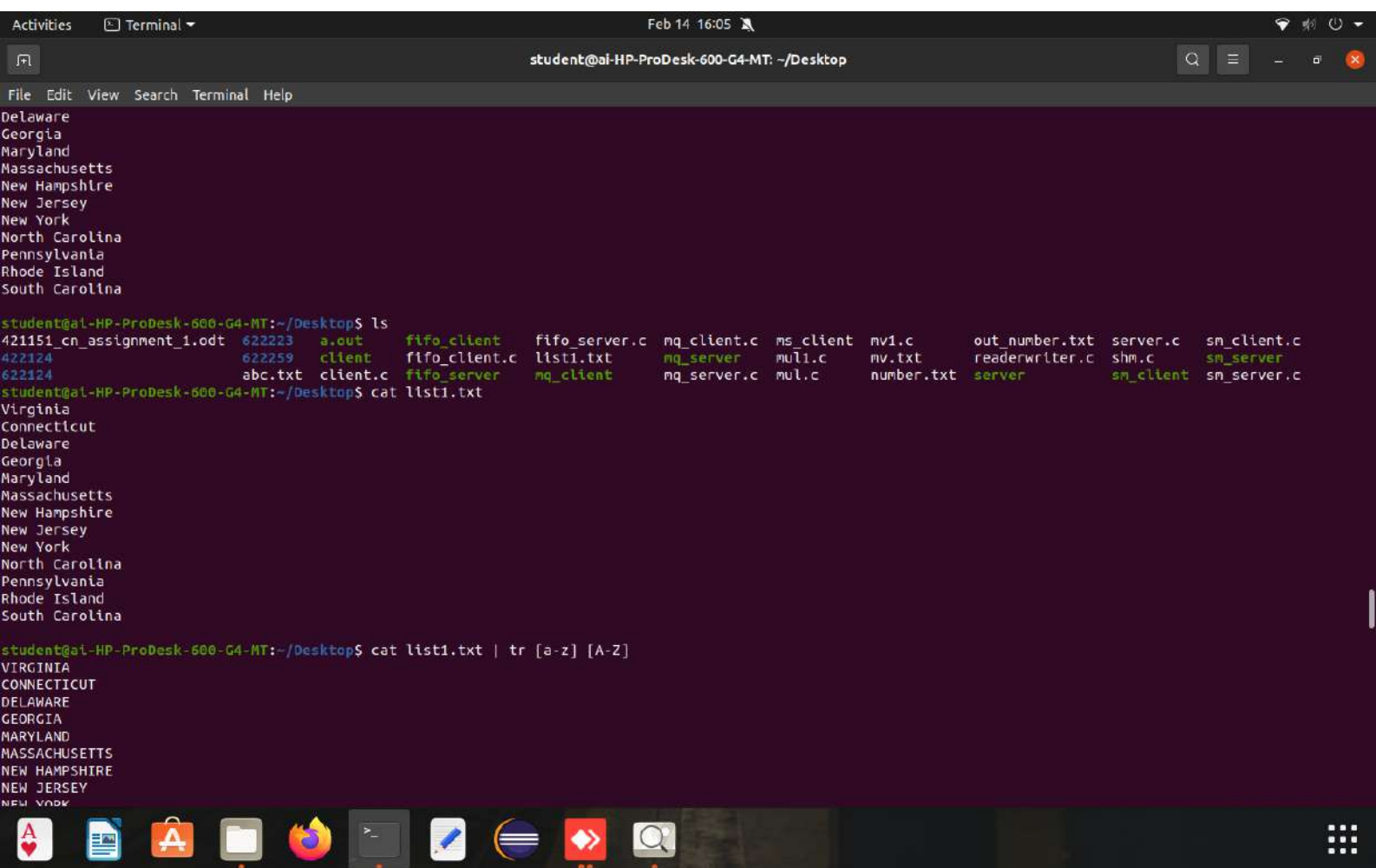student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ uniq -u list1.txt
Virginia
Connecticut
Delaware

File Edit View Search Terminal Help

```
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls
421151_cn_assignment_1.odt  622223   a.out    fifo_client   fifo_server.c  mq_client.c  ms_client  nv1.c        out_number.txt  server.c     sm_client.c
422124                      622259   client   fifo_client.c  list1.txt      mq_server    mul1.c      nv.txt       readerwriter.c  shm.c         sm_server
622124                      abc.txt  client.c  fifo_server   mq_client      nq_server.c  mul.c       number.txt  server          sm_client     sm_server.c
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat list1.txt | tr [a-z] [A-Z]
VIRGINIA
CONNECTICUT
DELAWARE
GEORGIA
MARYLAND
MASSACHUSETTS
NEW HAMPSHIRE
NEW JERSEY
NEW YORK
```

File Edit View Search Terminal Help

```
MARYLAND
MASSACHUSETTS
NEW HAMPSHIRE
NEW JERSEY
NEW YORK
NORTH CAROLINA
PENNSYLVANIA
RHODE ISLAND
SOUTH CAROLINA
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ echo "welcome to geeks for geeks" | tr  -d W
welcome to geeks for geeks
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ echo "my id is 422123" | tr -d [:digit:]
my id is
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat list1.txt
Virginia
Connecticut
Delaware
Georgia
Maryland
Massachusetts
New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep -i "connect" list1.txt
Connecticut
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep -c "connecticut" list1.txt
0
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep -w "connect" list1.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep -o "connecticut" list1.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep -n "connecticut" list1.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ grep --help
Usage: grep [OPTION]... PATTERNS [FILE]...
Search for PATTERNS in each FILE.
Example: grep -i 'hello world' menu.h main.c
PATTERNS can contain multiple patterns separated by newlines
```

File Edit View Search Terminal Help
PATTERNS can contain multiple patterns separated by newlines.

Pattern selection and interpretation:
  -E, --extended-regexp   PATTERNS are extended regular expressions
  -F, --fixed-strings   PATTERNS are strings
  -G, --basic-regexp   PATTERNS are basic regular expressions
  -P, --perl-regexp   PATTERNS are Perl regular expressions
  -e, --regexp=PATTERNS   use PATTERNS for matching
  -f, --file=FILE   take PATTERNS from FILE
  -i, --ignore-case   ignore case distinctions in patterns and data
      --no-ignore-case   do not ignore case distinctions (default)
  -w, --word-regexp   match only whole words
  -x, --line-regexp   match only whole lines
  -z, --null-data   a data line ends in 0 byte, not newline

Miscellaneous:
  -s, --no-messages   suppress error messages
  -v, --invert-match   select non-matching lines
  -V, --version   display version information and exit
      --help   display this help text and exit

Output control:
  -m, --max-count=NUM   stop after NUM selected lines
  -b, --byte-offset   print the byte offset with output lines
  -n, --line-number   print line number with output lines
      --line-buffered   flush output on every line
  -H, --with-filename   print file name with output lines
  -h, --no-filename   suppress the file name prefix on output
      --label=LABEL   use LABEL as the standard input file name prefix
  -o, --only-matching   show only nonempty parts of lines that match
  -q, --quiet, --silent   suppress all normal output
      --binary-files=TYPE assume that binary files are TYPE;
                           TYPE is 'binary', 'text', or 'without-match'
  -a, --text   equivalent to --binary-files=text
  -I   equivalent to --binary-files=without-match
  -d, --directories=ACTION how to handle directories;
                           ACTION is 'read', 'recurse', or 'skip'
  -D, --devices=ACTION   how to handle devices, FIFOs and sockets;
                           ACTION is 'read' or 'skip'
  -r, --recursive   like --directories=recurse
  -R --dereference-recursive likewise but follow all symlinks

File Edit View Search Terminal Help

```
 -R, --dereference-recursive  likewise, but follow all symlinks
     --include=GLOB           search only files that match GLOB (a file pattern)
     --exclude=GLOB           skip files that match GLOB
     --exclude-from=FILE      skip files that match any file pattern from FILE
     --exclude-dir=GLOB       skip directories that match GLOB
 -L, --files-without-match  print only names of FILEs with no selected lines
 -l, --files-with-matches   print only names of FILEs with selected lines
 -c, --count                print only a count of selected lines per FILE
 -T, --initial-tab          make tabs line up (if needed)
 -Z, --null                 print 0 byte after FILE name

Context control:
 -B, --before-context=NUM   print NUM lines of leading context
 -A, --after-context=NUM    print NUM lines of trailing context
 -C, --context=NUM          print NUM lines of output context
 -NUM                       same as --context=NUM
     --color[=WHEN],
     --colour[=WHEN]        use markers to highlight the matching strings;
                            WHEN is 'always', 'never', or 'auto'
 -U, --binary               do not strip CR characters at EOL (MSDOS/Windows)

When FILE is '-', read standard input.  With no FILE, read '.' if
recursive, '-' otherwise.  With fewer than two FILEs, assume -h.
Exit status is 0 if any line (or file if -L) is selected, 1 otherwise;
if any error occurs and -q is not given, the exit status is 2.

Report bugs to: bug-grep@gnu.org
GNU grep home page: <http://www.gnu.org/software/grep/>
General help using GNU software: <https://www.gnu.org/gethelp/>
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ script output.txt
Script started, file is output.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pdflatex output.txt

Command 'pdflatex' not found, but can be installed with:

sudo apt install texlive-latex-base

student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ pandoc -o output.pdf output.txt
pdflatex not found. Please select a different --pdf-engine or install pdflatex -- see also /usr/share/doc/pandoc/README.Debian
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ sudo apt-get install texlive-latex-base
[sudo] password for student:
```

student@ai-HP-ProDesk-600-G4-MT: ~/Desktop

File Edit View Search Terminal Help

```
[sudo] password for student:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  dvisvgm fonts-lmodern libkpathsea6 libptexenc1 libsynctex2 libteckit0 libtexlua53 libtexluajit2 libzzip-0-13 lmodern t1utils tex-common texlive-base
  texlive-binaries
Suggested packages:
  debhelper perl-tk xzdec texlive-latex-base-doc
The following NEW packages will be installed:
  dvisvgm fonts-lmodern libptexenc1 libteckit0 libtexlua53 libtexluajit2 libzzip-0-13 lmodern t1utils tex-common texlive-base texlive-binaries
  texlive-latex-base
The following packages will be upgraded:
  libkpathsea6 libsynctex2
2 upgraded, 13 newly installed, 0 to remove and 589 not upgraded.
Need to get 45.8 MB of archives.
After this operation, 174 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 tex-common all 6.13 [32.7 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 libkpathsea6 amd64 2019.20190605.51237-3ubuntu0.1 [57.0 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 dvisvgm amd64 2.8.1-1build1 [1,048 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 fonts-lmodern all 2.004.5-6 [4,532 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 libptexenc1 amd64 2019.20190605.51237-3ubuntu0.1 [35.5 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 libsynctex2 amd64 2019.20190605.51237-3ubuntu0.1 [55.0 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 libteckit0 amd64 2.5.8+ds2-5ubuntu2 [320 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 libtexlua53 amd64 2019.20190605.51237-3ubuntu0.1 [105 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 libtexluajit2 amd64 2019.20190605.51237-3ubuntu0.1 [235 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu focal-updates/universe amd64 libzzip-0-13 amd64 0.13.62-3.2ubuntu1.1 [26.2 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 lmodern all 2.004.5-6 [9,474 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu focal/main amd64 t1utils amd64 1.41-3 [56.1 kB]
Get:13 http://in.archive.ubuntu.com/ubuntu focal-updates/universe amd64 texlive-binaries amd64 2019.20190605.51237-3ubuntu0.1 [8,041 kB]
Get:14 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 texlive-base all 2019.20200218-1 [20.8 MB]
Get:15 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 texlive-latex-base all 2019.20200218-1 [990 kB]
Fetched 45.8 MB in 2min 44s (280 kB/s)
Preconfiguring packages ...
Selecting previously unselected package tex-common.
(Reading database ... 305244 files and directories currently installed.)
Preparing to unpack .../00-tex-common_6.13_all.deb ...
Unpacking tex-common (6.13) ...
Preparing to unpack .../01-libkpathsea6_2019.20190605.51237-3ubuntu0.1_amd64.deb ...
Unpacking libkpathsea6:amd64 (2019.20190605.51237-3ubuntu0.1) over (2019.20190605.51237-3build2)
```

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Unpacking libkpathsea6:amd64 (2019.20190605.51237-3ubuntu0.1) over (2019.20190605.51237-3build2) ...
Selecting previously unselected package dvisvgm.
Preparing to unpack .../02-dvisvgm_2.8.1-1build1_amd64.deb ...
Unpacking dvisvgm (2.8.1-1build1) ...
Selecting previously unselected package fonts-lmodern.
Preparing to unpack .../03-fonts-lmodern_2.004.5-6_all.deb ...
Unpacking fonts-lmodern (2.004.5-6) ...
Selecting previously unselected package libptexenc1:amd64.
Preparing to unpack .../04-libptexenc1_2019.20190605.51237-3ubuntu0.1_amd64.deb ...
Unpacking libptexenc1:amd64 (2019.20190605.51237-3ubuntu0.1) ...
Preparing to unpack .../05-libsynctex2_2019.20190605.51237-3ubuntu0.1_amd64.deb ...
Unpacking libsynctex2:amd64 (2019.20190605.51237-3ubuntu0.1) over (2019.20190605.51237-3build2) ...
Selecting previously unselected package libteckit0:amd64.
Preparing to unpack .../06-libteckit0_2.5.8+ds2-5ubuntu2_amd64.deb ...
Unpacking libteckit0:amd64 (2.5.8+ds2-5ubuntu2) ...
Selecting previously unselected package libtexlua53:amd64.
Preparing to unpack .../07-libtexlua53_2019.20190605.51237-3ubuntu0.1_amd64.deb ...
Unpacking libtexlua53:amd64 (2019.20190605.51237-3ubuntu0.1) ...
Selecting previously unselected package libtexluajit2:amd64.
Preparing to unpack .../08-libtexluajit2_2019.20190605.51237-3ubuntu0.1_amd64.deb ...
Unpacking libtexluajit2:amd64 (2019.20190605.51237-3ubuntu0.1) ...
Selecting previously unselected package libzzip-0-13:amd64.
Preparing to unpack .../09-libzzip-0-13_0.13.62-3.2ubuntu1.1_amd64.deb ...
Unpacking libzzip-0-13:amd64 (0.13.62-3.2ubuntu1.1) ...
Selecting previously unselected package lmodern.
Preparing to unpack .../10-lmodern_2.004.5-6_all.deb ...
Unpacking lmodern (2.004.5-6) ...
Selecting previously unselected package t1utils.
Preparing to unpack .../11-t1utils_1.41-3_amd64.deb ...
Unpacking t1utils (1.41-3) ...
Selecting previously unselected package texlive-binaries.
Preparing to unpack .../12-texlive-binaries_2019.20190605.51237-3ubuntu0.1_amd64.deb ...
Unpacking texlive-binaries (2019.20190605.51237-3ubuntu0.1) ...
Selecting previously unselected package texlive-base.
Preparing to unpack .../13-texlive-base_2019.20200218-1_all.deb ...
Unpacking texlive-base (2019.20200218-1) ...
Selecting previously unselected package texlive-latex-base.
Preparing to unpack .../14-texlive-latex-base_2019.20200218-1_all.deb ...
Unpacking texlive-latex-base (2019.20200218-1) ...
Setting up libtexlua53:amd64 (2019.20190605.51237-3ubuntu0.1) ...
Setting up libtexluajit2:amd64 (2019.20190605.51237-3ubuntu0.1) ...
```

student@ai-HP-ProDesk-600-G4-MT: ~/Desktop

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```
Unpacking texlive-latex-base (2019.20200218-1) ...
Setting up libtexlua53:amd64 (2019.20190605.51237-3ubuntu0.1) ...
Setting up libtexluajit2:amd64 (2019.20190605.51237-3ubuntu0.1) ...
Setting up libzzip-0-13:amd64 (0.13.62-3.2ubuntu1.1) ...
Setting up tex-common (6.13) ...
update-language: texlive-base not installed and configured, doing nothing!
Setting up libteckit0:amd64 (2.5.8+ds2-5ubuntu2) ...
Setting up t1utils (1.41-3) ...
Setting up libkpathsea6:amd64 (2019.20190605.51237-3ubuntu0.1) ...
Setting up fonts-lmodern (2.004.5-6) ...
Setting up libsynctex2:amd64 (2019.20190605.51237-3ubuntu0.1) ...
Setting up dvisvgm (2.8.1-1build1) ...
Setting up libptexenc1:amd64 (2019.20190605.51237-3ubuntu0.1) ...
Setting up texlive-binaries (2019.20190605.51237-3ubuntu0.1) ...
update-alternatives: using /usr/bin/xdvi-xaw to provide /usr/bin/xdvi.bin (xdvi.bin) in auto mode
update-alternatives: using /usr/bin/bibtex.original to provide /usr/bin/bibtex (bibtex) in auto mode
Setting up lmodern (2.004.5-6) ...
Setting up texlive-base (2019.20200218-1) ...
mktexlsr: Updating /var/lib/texmf/ls-R-TEXLIVEDIST...
mktexlsr: Updating /var/lib/texmf/ls-R-TEXMFMAIN...
mktexlsr: Updating /var/lib/texmf/ls-R...
mktexlsr: Done.
tl-paper: setting paper size for dvips to a4: /var/lib/texmf/dvips/config/config-paper.ps
tl-paper: setting paper size for dvipdfmx to a4: /var/lib/texmf/dvipdfmx/dvipdfmx-paper.cfg
tl-paper: setting paper size for xdvi to a4: /var/lib/texmf/xdvi/XDvi-paper
tl-paper: setting paper size for pdftex to a4: /var/lib/texmf/tex/generic/config/pdftexconfig.tex
Setting up texlive-latex-base (2019.20200218-1) ...
Processing triggers for fontconfig (2.13.1-2ubuntu3) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for install-info (6.7.0.dfsg.2-5) ...
Processing triggers for tex-common (6.13) ...
Running updmap-sys. This may take some time... done.
Running mktexlsr /var/lib/texmf ... done.
Building format(s) --all.
        This may take some time... done.
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ []
```