

Linux Assignment- 27 May

- Jahnvi Lakshmi Muttireddy

1. Download the file [scraper.sh](#) . Make the file executable. The file takes any wikipedia webpage as an argument. Run the process on multiple sites like [Wikipedia:Stub - Wikipedia](#) , [India - Wikipedia](#) at the same time and

```
AzureAD+JahnviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop (master)
$ cd Linux-assignments

AzureAD+JahnviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/Linux-assignments (master)
$ ls -ltr
total 4
-rwxr-xr-x 1 AzureAD+JahnviLakshmiMuttir 4096 2101 May 30 10:58 web_scraper.sh*
```

```
AzureAD+JahnviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ./web_scraper.sh "https://en.wikipedia.org/wiki/India" &
[1] 551
Fetching: https://en.wikipedia.org/wiki/India
./web_scraper.sh: line 41: wget: command not found
All links have been fetched.
Stored 1 pages in memory.
[1]+  Done                  ./web_scraper.sh "https://en.wikipedia.org/wiki/India"
```

- a. Find all the processes running on the system.

```
AzureAD+JahnviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ps aux
```

PID	PPID	PGID	WINPID	TTY	UID	STIME	COMMAND
482	1	482	15356	?	4096	19:18:29	/usr/bin/mintty
483	482	483	8908	pty0	4096	19:18:29	/usr/bin/bash
565	483	565	22848	pty0	4096	19:27:18	/usr/bin/ps

- b. Find the first 5 processes with the highest memory usage.

```
AzureAD+JahnviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ps aux | sort -rk 4 | head -n 6
```

PID	PPID	PGID	WINPID	TTY	UID	STIME	COMMAND
580	483	580	24748	pty0	4096	19:29:19	/usr/bin/ps
581	483	580	23676	pty0	4096	19:29:19	/usr/bin/bash
482	1	482	15356	?	4096	19:18:29	/usr/bin/mintty
483	482	483	8908	pty0	4096	19:18:29	/usr/bin/bash

2. Print the HTTP response code obtained from google.com.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ curl -o /dev/null -s -w "%{http_code}\n" https://www.google.com
200
```

- Find the top 3 running processes which consume the most processing power.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ps aux | sort -rk 3 | head -n 4
```

PID	PPID	PGID	WINPID	TTY	UID	STIME	COMMAND
592	483	592	3628	pty0	4096	19:36:21	/usr/bin/ps
483	482	483	8908	pty0	4096	19:18:29	/usr/bin/bash
482	1	482	15356	?	4096	19:18:29	/usr/bin/mintty

- Write a script that finds all files larger than 100MB in a directory and lists them.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ find -type f -size +100M

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$
```

- Find which version of Python is installed on the system.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ python --version
Python was not found; run without arguments to install from the Microsoft Store, or disable this shortcut from Settings > Apps > Advanced app settings > App execution alias es.

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
```

- Get the current time zone of your system.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ cmd.exe /c tzutil /g
Microsoft Windows [Version 10.0.26100.4061]
(c) Microsoft Corporation. All rights reserved.

C:\Users\JahnaviLakshmiMuttir\Desktop\Linux-Assignments>
C:\Users\JahnaviLakshmiMuttir\Desktop\Linux-Assignments>cmd.exe /c tzutil /g
India Standard Time
C:\Users\JahnaviLakshmiMuttir\Desktop\Linux-Assignments>
```

- Get the current time in New York, London, and Sydney.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ TZ="Europe/London" date +"London: %Y-%m-%d %H:%M:%S"
London: 2025-05-30 14:16:00

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ TZ="Australia/Sydney" date +"Sydney: %Y-%m-%d %H:%M:%S"
Sydney: 2025-05-30 14:16:09
```

- Check for how long the system is up.

- Given a log file:

```

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ touch log.log

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ vi log.log

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ cat log.log
2025-02-18 08:45:12 INFO Starting the application
2025-02-18 08:46:23 WARN Low disk space on /dev/sda1
2025-02-18 08:47:34 ERROR Failed to connect to database
2025-02-18 08:47:34 ERROR Details:
2025-02-18 08:47:34 ERROR Connection timeout after 30 seconds
2025-02-18 08:48:45 INFO User login successful: user1
2025-02-18 08:49:56 INFO Scheduled backup completed
2025-02-18 08:50:15 INFO User login successful: user2
2025-02-18 08:51:45 ERROR Unable to write to log file
2025-02-18 08:51:45 ERROR Details:
2025-02-18 08:51:45 ERROR Disk write permission denied
2025-02-18 08:52:30 INFO User logout: user1
2025-02-18 08:53:50 WARN High memory usage detected
2025-02-18 08:54:22 INFO User login successful: user3
2025-02-18 08:55:33 INFO File upload completed: file1.txt
2025-02-18 08:56:45 ERROR Network timeout
2025-02-18 08:56:45 ERROR Details:
2025-02-18 08:56:45 ERROR Server did not respond within the allotted time
2025-02-18 08:57:56 INFO User logout: user2
2025-02-18 08:58:12 INFO User login successful: user4
2025-02-18 08:59:23 INFO Scheduled maintenance started
2025-02-18 09:00:34 INFO User logout: user3
2025-02-18 09:01:45 INFO Application shutdown initiated
2025-02-18 09:02:56 INFO Application shutdown completed

2025-02-19 09:05:23 INFO Starting the application
2025-02-19 09:06:45 WARN Low disk space on /dev/sda1
2025-02-19 09:07:12 ERROR Failed to connect to database
2025-02-19 09:07:12 ERROR Details:
2025-02-19 09:07:12 ERROR Connection timeout after 30 seconds
2025-02-19 09:08:34 INFO User login successful: user1
2025-02-19 09:09:56 INFO Scheduled backup completed
2025-02-19 09:10:15 INFO User login successful: user2
2025-02-19 09:11:45 ERROR Unable to write to log file
2025-02-19 09:11:45 ERROR Details:
2025-02-19 09:11:45 ERROR Disk write permission denied

```

- a. Find all the errors in the log and dump them to a new file.

```

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ grep -i "error" log.log > errors.log

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ls
desktop.ini  errors.log  log.log  web_scraper.sh*

```

- b. What events occurred between 09:10 and 09:19?

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ awk '$2 >= "09:10:00" && $2 <= "09:19:59"' log.log
2025-02-19 09:10:15 INFO User login successful: user2
2025-02-19 09:11:45 ERROR Unable to write to log file
2025-02-19 09:11:45 ERROR Details:
2025-02-19 09:11:45 ERROR Disk write permission denied
2025-02-19 09:12:30 INFO User logout: user1
2025-02-19 09:13:50 WARN High memory usage detected
2025-02-19 09:14:22 INFO User login successful: user3
2025-02-19 09:15:33 INFO File upload completed: file1.txt
2025-02-19 09:16:45 ERROR Network timeout
2025-02-19 09:16:45 ERROR Details:
2025-02-19 09:16:45 ERROR Server did not respond within the allotted time
2025-02-19 09:17:56 INFO User logout: user2
2025-02-19 09:18:12 INFO User login successful: user4
2025-02-19 09:19:23 INFO Scheduled maintenance started
```

c. How many INFO messages are in the log file?

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ grep -c "INFO" log.log
51
```

d. Print the first 5 lines of the file.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ head -n 5 log.log
2025-02-18 08:45:12 INFO Starting the application
2025-02-18 08:46:23 WARN Low disk space on /dev/sda1
2025-02-18 08:47:34 ERROR Failed to connect to database
2025-02-18 08:47:34 ERROR Details:
2025-02-18 08:47:34 ERROR Connection timeout after 30 seconds
```

e. Print the last 5 lines of the file.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ tail -n 5 log.log
2025-02-20 10:29:45 ERROR Application crash
2025-02-20 10:29:45 ERROR Details:
2025-02-20 10:29:45 ERROR Null pointer exception in module X
2025-02-20 10:30:56 INFO User logout: user5
```

f. Print lines if the lines contain error, fail, or warning.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ grep -Ei "error|fail|warning" log.log
2025-02-18 08:47:34 ERROR Failed to connect to database
2025-02-18 08:47:34 ERROR Details:
2025-02-18 08:47:34 ERROR Connection timeout after 30 seconds
2025-02-18 08:51:45 ERROR Unable to write to log file
2025-02-18 08:51:45 ERROR Details:
2025-02-18 08:51:45 ERROR Disk write permission denied
2025-02-18 08:56:45 ERROR Network timeout
2025-02-18 08:56:45 ERROR Details:
2025-02-18 08:56:45 ERROR Server did not respond within the allotted time
2025-02-19 09:07:12 ERROR Failed to connect to database
2025-02-19 09:07:12 ERROR Details:
2025-02-19 09:07:12 ERROR Connection timeout after 30 seconds
2025-02-19 09:11:45 ERROR Unable to write to log file
2025-02-19 09:11:45 ERROR Details:
2025-02-19 09:11:45 ERROR Disk write permission denied
2025-02-19 09:16:45 ERROR Network timeout
2025-02-19 09:16:45 ERROR Details:
2025-02-19 09:16:45 ERROR Server did not respond within the allotted time
2025-02-19 09:29:45 ERROR Application crash
2025-02-19 09:29:45 ERROR Details:
2025-02-19 09:29:45 ERROR Null pointer exception in module X
2025-02-20 10:07:12 ERROR Failed to connect to database
2025-02-20 10:07:12 ERROR Details:
2025-02-20 10:07:12 ERROR Connection timeout after 30 seconds
```

- g. Rename the file to new_log.txt.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ mv log.log new_log.txt

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ls
desktop.ini  errors.log  new_log.txt  web_scraper.sh*
```

- h. Edit the log file and add the string "hello, world!" at the beginning of the file.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ sed -i '1i hello, world!' new_log.txt

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ vi new_log.txt
```

```
hello, world!
2025-02-18 08:45:12 INFO Starting the application
2025-02-18 08:46:23 WARN Low disk space on /dev/sda1
2025-02-18 08:47:34 ERROR Failed to connect to database
2025-02-18 08:47:34 ERROR Details:
2025-02-18 08:47:34 ERROR Connection timeout after 30 seconds
2025-02-18 08:48:45 INFO User login successful: user1
2025-02-18 08:49:56 INFO Scheduled backup completed
2025-02-18 08:50:15 INFO User login successful: user2
2025-02-18 08:51:45 ERROR Unable to write to log file
2025-02-18 08:51:45 ERROR Details:
2025-02-18 08:51:45 ERROR Disk write permission denied
2025-02-18 08:52:30 INFO User logout: user1
2025-02-18 08:53:50 WARN High memory usage detected
2025-02-18 08:54:22 INFO User login successful: user3
2025-02-18 08:55:33 INFO File upload completed: file1.txt
2025-02-18 08:56:45 ERROR Network timeout
2025-02-18 08:56:45 ERROR Details:
2025-02-18 08:56:45 ERROR Server did not respond within the allotted time
2025-02-18 08:57:56 INFO User logout: user2
2025-02-18 08:58:12 INFO User login successful: user4
2025-02-18 08:59:23 INFO Scheduled maintenance started
2025-02-18 09:00:34 INFO User logout: user3
2025-02-18 09:01:45 INFO Application shutdown initiated
2025-02-18 09:02:56 INFO Application shutdown completed
2025-02-19 09:05:23 INFO Starting the application
```

- i. Delete the old log file.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ rm log.log
```

- j. Filter entries containing the "INFO" string for a particular date for a given log file, you can use the sample log file given below.

```
AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ grep "2025-02-19" new_log.txt | grep "INFO"
2025-02-19 09:05:23 INFO Starting the application
2025-02-19 09:08:34 INFO User login successful: user1
2025-02-19 09:09:56 INFO Scheduled backup completed
2025-02-19 09:10:15 INFO User login successful: user2
2025-02-19 09:12:30 INFO User logout: user1
2025-02-19 09:14:22 INFO User login successful: user3
2025-02-19 09:15:33 INFO File upload completed: file1.txt
2025-02-19 09:17:56 INFO User logout: user2
2025-02-19 09:18:12 INFO User login successful: user4
2025-02-19 09:19:23 INFO Scheduled maintenance started
2025-02-19 09:20:34 INFO User logout: user3
2025-02-19 09:21:45 INFO Application shutdown initiated
2025-02-19 09:22:56 INFO Application shutdown completed
2025-02-19 09:23:45 INFO System reboot initiated
2025-02-19 09:24:56 INFO System reboot completed
2025-02-19 09:25:34 INFO User login successful: admin
2025-02-19 09:27:56 INFO User logout: admin
2025-02-19 09:28:34 INFO User login successful: user5
2025-02-19 09:30:56 INFO User logout: user5
```

13. Write a command to continuously monitor what is being appended to the file and output if you find the string "Error".

```
AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ tail -f log.log | grep "Error"
```

14. Connect to google.com and copy the output to a text file.

```
AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ curl https://www.google.com -o google_output.txt
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 19782    0 19782    0     0  83307      0 --:--:-- --:--:-- --:--:-- 84538
```

15. Create a file called example.txt. Write a script to make it read-only for all users.

```
AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ touch example.txt

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ chmod 444 example.txt

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ls -ltr
total 37
-rwxr-xr-x 1 AzureAD+JahnnaviLakshmiMuttir 4096 2101 May 30 19:08 web_scraper.sh*
-rw-r--r-- 1 AzureAD+JahnnaviLakshmiMuttir 4096 56 May 30 19:18 desktop.ini
-rw-r--r-- 1 AzureAD+JahnnaviLakshmiMuttir 4096 1624 May 30 19:53 errors.txt
-rw-r--r-- 1 AzureAD+JahnnaviLakshmiMuttir 4096 4661 May 30 20:04 new_log.txt
-rw-r--r-- 1 AzureAD+JahnnaviLakshmiMuttir 4096 19782 May 30 20:07 google_output.txt
-r--r--r-- 1 AzureAD+JahnnaviLakshmiMuttir 4096 0 May 30 20:08 example.txt
```

16. Write a script that changes the permissions of a script named myscript.sh to make it executable by the owner, group, and others.


```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ touch myscript.sh

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ chmod -x myscript.sh

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ls -ltr myscript.sh
-rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 0 May 30 20:09 myscript.sh
```

17. Recursively make all the files readable in a directory.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ chmod -R a+r ~/desktop/linux-assignments
```

18. List out all the files that end with ".log" in a directory.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ls *.log
errors.log
```

19. Write a command to get the kernel version.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ uname -r
3.5.7-463ebcdc.x86_64
```

20. Find the IP address of the system.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ipconfig

Windows IP Configuration

Wireless LAN adapter Local Area Connection* 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 10:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . :
    IPv4 Address. . . . . : 192.168.0.110
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

Ethernet adapter Bluetooth Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Ethernet:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :
```

21. Write a script to list all files and directories in the current directory, sorted by size.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ls -lh
total 37K
1.0K -rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 56 May 30 19:18 desktop.ini
4.0K -rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 1.6K May 30 20:17 errors.log
0 -r--r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 0 May 30 20:26 example.txt
20K -rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 20K May 30 20:26 google_output.txt
0 -rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 0 May 30 20:27 myscript.sh
8.0K -rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 4.6K May 30 20:15 new_log.txt
4.0K -rwxr-xr-x 1 AzureAD+JahnaviLakshmiMuttir 4096 2.1K May 30 19:08 web_scraper.sh*
```

22. List all files and directories in the current directory with sizes in human-readable format.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ls -lh
total 37K
-rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 56 May 30 19:18 desktop.ini
-rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 1.6K May 30 20:17 errors.log
-r--r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 0 May 30 20:26 example.txt
-rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 20K May 30 20:26 google_output.txt
-rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 0 May 30 20:27 myscript.sh
-rw-r--r-- 1 AzureAD+JahnaviLakshmiMuttir 4096 4.6K May 30 20:15 new_log.txt
-rwxr-xr-x 1 AzureAD+JahnaviLakshmiMuttir 4096 2.1K May 30 19:08 web_scraper.sh*
```

23. Print the hostname a computer.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ hostname
IN-KA-H6P9XZ
```

24. Command to Kill a particular process running in your system.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ kill 460
```

25. Create two files test1.txt and test2.txt with some content and merge it to a single file test.txt


```

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ touch text1.txt

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ vi text1.txt

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ touch text2.txt

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ vi text2.txt

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ cat text1.txt
Good Evening

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ cat text2.txt
Linux Assignment

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ cat text1.txt text2.txt > test.txt

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ cat test.txt
Good Evening
Linux Assignment

```

26. Create a shell script test.sh with the content given at the bottom and execute it.

```

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ nano test.sh

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ chmod +x test.sh

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ./test.sh
Created process with PID: 1065
Created process with PID: 1066
Created process with PID: 1067
Created process with PID: 1068
Created process with PID: 1069
Created process with PID: 1070
Created process with PID: 1071
Created process with PID: 1072
Created process with PID: 1073
Created process with PID: 1074

```

27. Test.sh creates multiple processes, write a command to kill some specific process with given pid.

```

AzureAD+JahnnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ kill 869

```

28. Write a shell script which takes your name as input and it will display Hello your name.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ touch readname.sh

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ vi readname.sh

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ vi readname.sh

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ chmod +x readname.sh

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ ./readname.sh
Enter your name:
jahnavi
Hello jahnavi
```

29. Write a command to download file.zip from
<https://github.com/github/gitignore/archive/refs/heads/main.zip>

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ curl -L -o file.zip https://github.com/github/gitignore/archive/refs/heads/main.zip
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
0 0 0 0 0 0 0 0 --:--:-- --:--:-- --:--:-- 0
100 122k 0 122k 0 0 151k 0 --:--:-- --:--:-- --:--:-- 151k
```

30. Write a command to zip test.txt to test.zip and unzip it.

```
AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ tar -czvf test.zip test.txt
test.txt

AzureAD+JahnaviLakshmiMuttir@IN-KA-H6P9XZ MINGW64 ~/desktop/linux-assignments (master)
$ tar -xzvf test.zip
test.txt
```

Sample log file:

i

Test.sh

num_processes=10

```
for ((i=1; i<=num_processes; i++))  
do  
    # Forking a child process  
    (sleep 60) &  
    echo "Created process with PID: $!"  
done
```
