

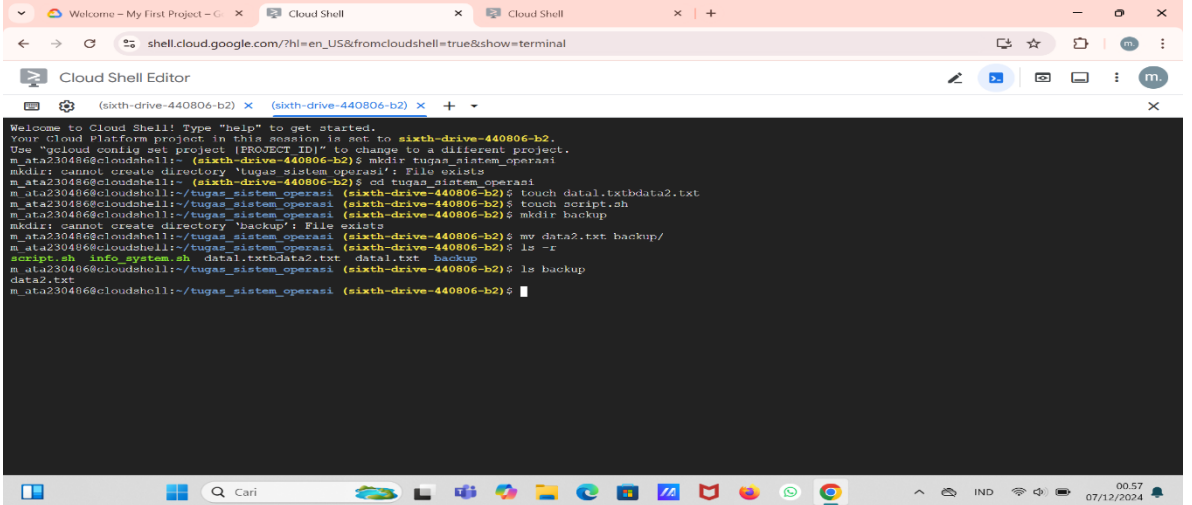
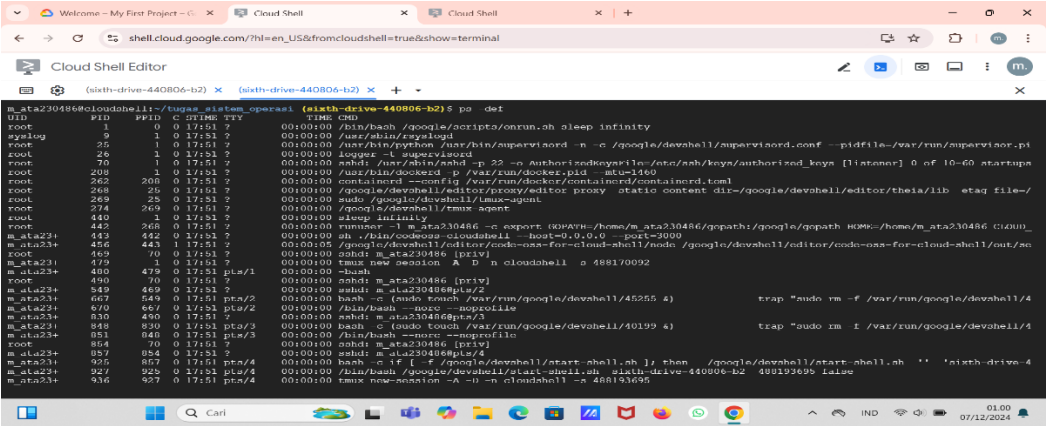
NAMA : M.ATA DWI JULIYANTO

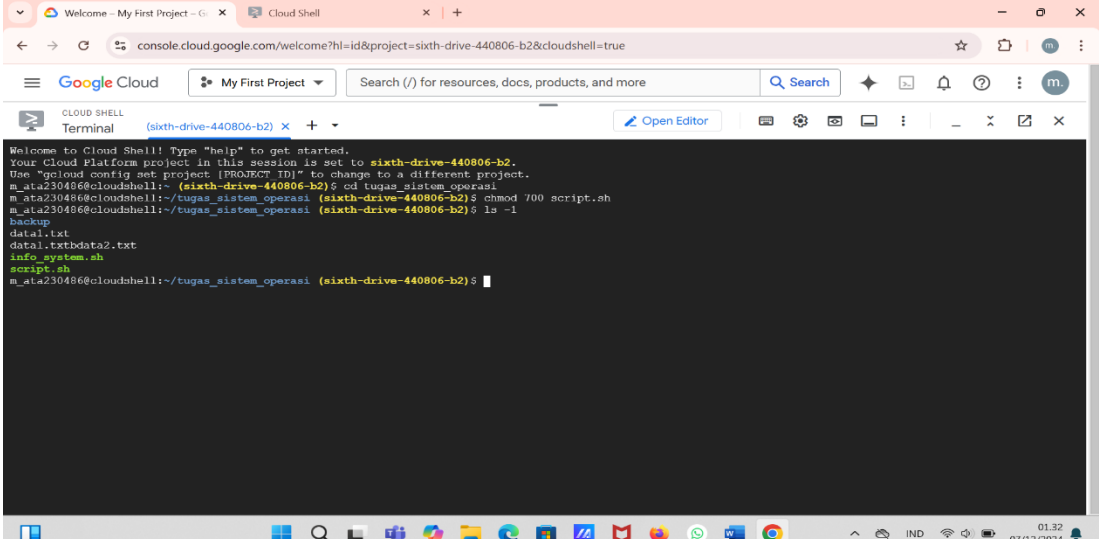
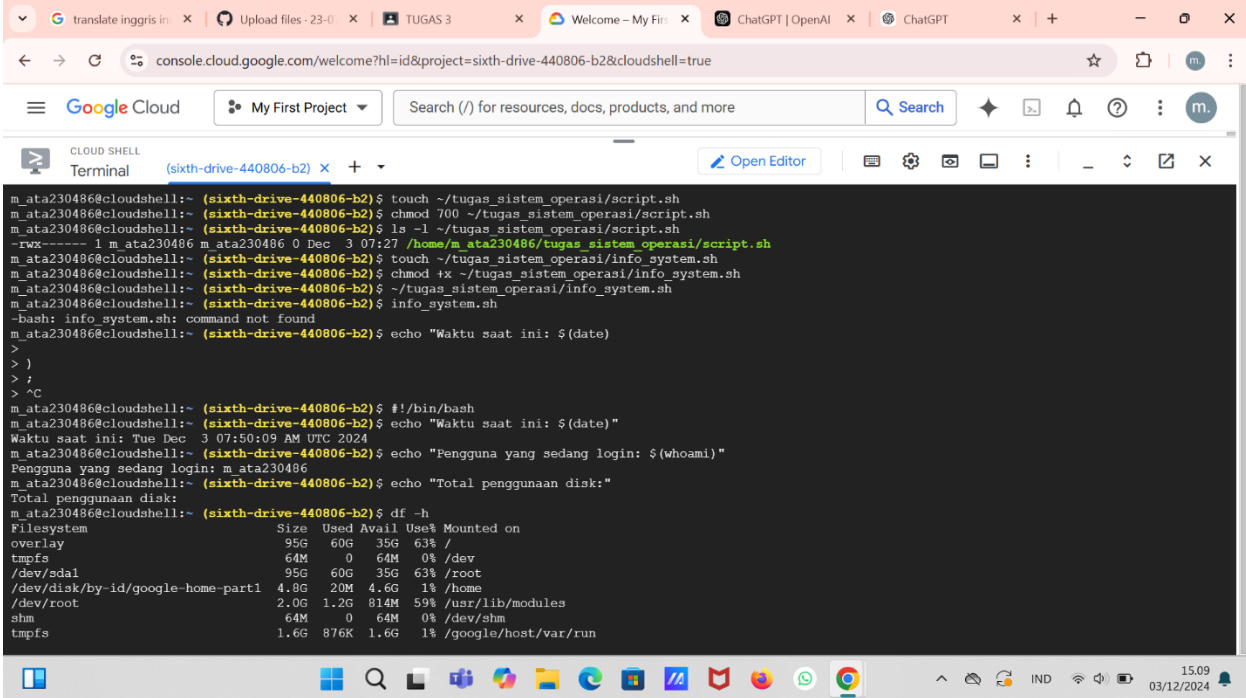
KELAS : TI 1B

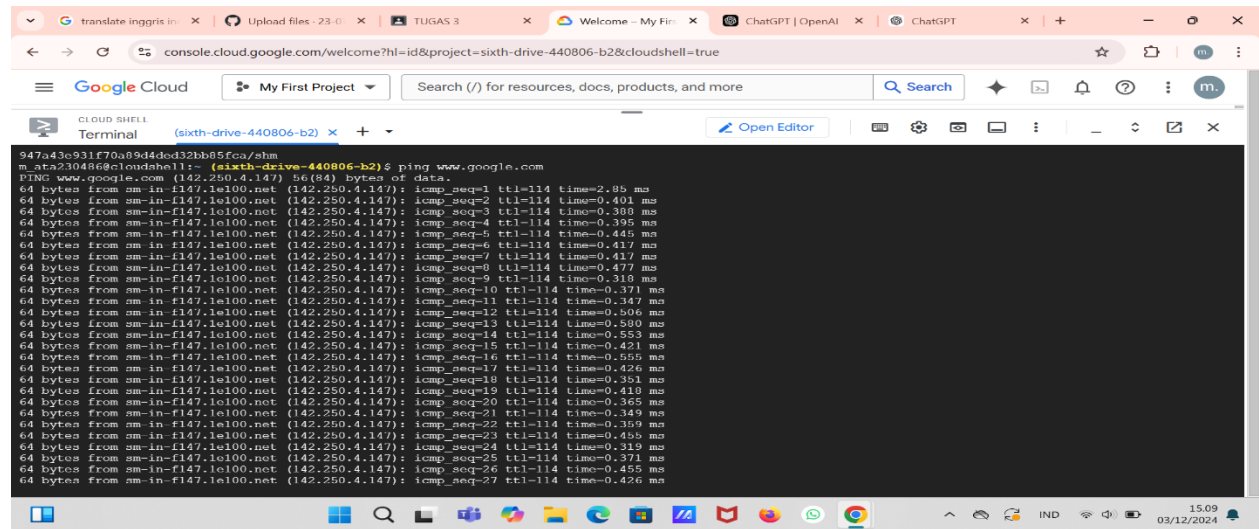
NIM : 2402046

ALAMAT GITHUB : <https://github.com/23-07-2006/M.ATA>

LAPORAN TUGAS PRAKTIKUM

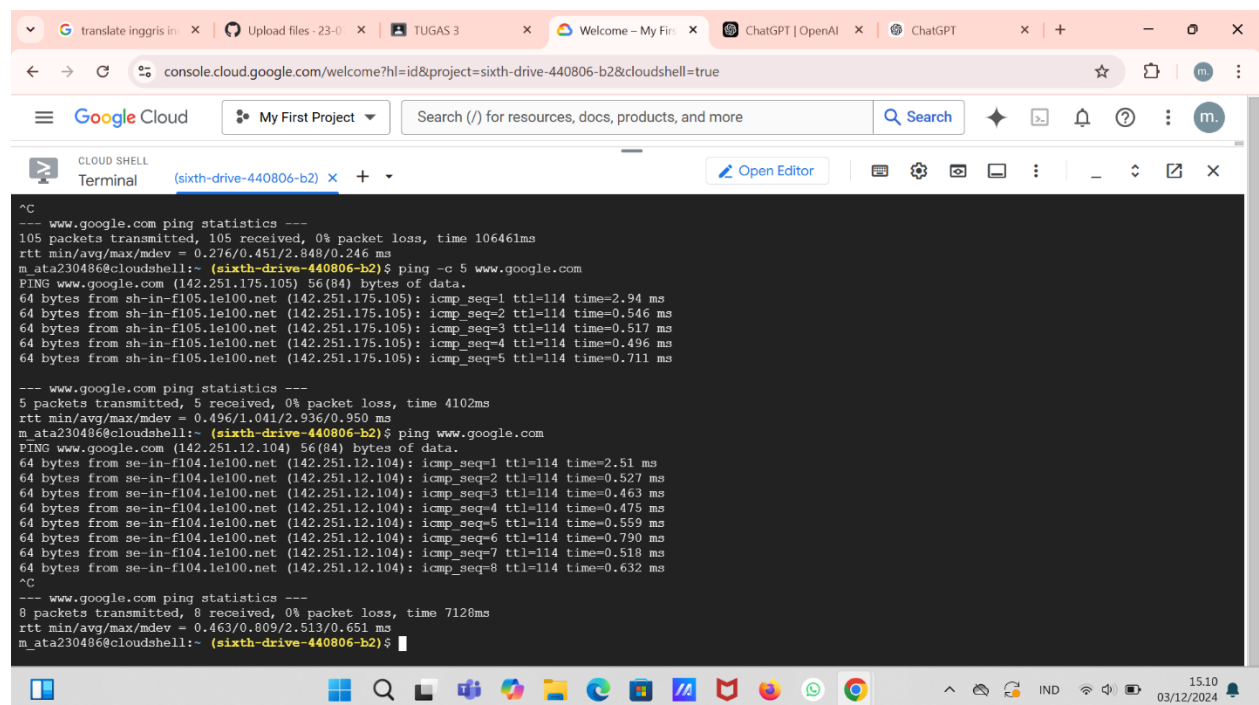
NO	JENIS PRAKTIKUM	FOTO
	MANAJEMEN FILE	 <p>The screenshot shows a Cloud Shell terminal window with the following commands and outputs:</p> <pre>Welcome to Cloud Shell! Type "help" to get started. Your Cloud Platform project in this session is not set to sixth-drive-440806-b2. Use "gcloud config set project PROJECT_ID" to change to a different project. m_ata230406@cloudshell:~ (sixth-drive-440806-b2)\$ mkdir tugas_sistem_operasi mkdir: cannot create directory 'tugas_sistem_operasi': File exists m_ata230406@cloudshell:~ (sixth-drive-440806-b2)\$ cd tugas_sistem_operasi m_ata230406@cloudshell:~/tugas_sistem_operasi (sixth-drive-440806-b2)\$ touch data1.txtdata2.txt m_ata230406@cloudshell:~/tugas_sistem_operasi (sixth-drive-440806-b2)\$ touch script.sh m_ata230406@cloudshell:~/tugas_sistem_operasi (sixth-drive-440806-b2)\$ mkdir backup mkdir: cannot create directory 'backup': File exists m_ata230406@cloudshell:~/tugas_sistem_operasi (sixth-drive-440806-b2)\$ mv data2.txt backup/ m_ata230406@cloudshell:~/tugas_sistem_operasi (sixth-drive-440806-b2)\$ ls -l -rw-r--r-- 1 m_ata230406@cloudshell 0 17:51 data1.txt -rw-r--r-- 1 m_ata230406@cloudshell 0 17:51 data2.txt -rw-r--r-- 1 m_ata230406@cloudshell 0 17:51 script.sh -rw-r--r-- 1 m_ata230406@cloudshell 0 17:51 data1.txt -rw-r--r-- 1 m_ata230406@cloudshell 0 17:51 data2.txt m_ata230406@cloudshell:~/tugas_sistem_operasi (sixth-drive-440806-b2)\$</pre>
2	MANAJEMEN PROSES	<p>LANGKAH-LANGKAH MEMATIKAN MENGGUNAKAN "KILL"</p> <ol style="list-style-type: none">1. Temukan PID (proses ID) dari proses gunakan perintah ps -def2. Hentikan proses dengan kill su kill <PID>3. Jika proses tidak mati gunakan sinyal -9 untuk memaksa penghentian sudo kill -9 <PID>  <p>The screenshot shows a Cloud Shell terminal window with the following command and output:</p> <pre>m_ata230406@cloudshell:~/tugas_sistem_operasi (sixth-drive-440806-b2)\$ ps -def UID PID PPID C STIME TTY TIMER CMD root 1 0 0 17:51 ? 00:00:00 /bin/bash /google/scripts/onrun.sh sleep infinity root 9 1 0 17:51 ? 00:00:00 /usr/sbin/sshd root 25 1 0 17:51 ? 00:00:00 /usr/bin/python /usr/bin/supervisord -n -c /google/devshell/supervisord.conf --pidfile=/var/run/supervisor.pid root 26 1 0 17:51 ? 00:00:00 /usr/sbin/sshd -p 22 -o AuthorizedKeysFile=/etc/ssh/keys/authorized_keys [listener] 0 of 10-60 startups root 70 1 0 17:51 ? 00:00:00 /usr/sbin/sshd -p 22 -o AuthorizedKeysFile=/etc/ssh/keys/authorized_keys [listener] 0 of 10-60 startups root 208 1 0 17:51 ? 00:00:00 /usr/sbin/sshd -p 22 -o AuthorizedKeysFile=/etc/ssh/keys/authorized_keys [listener] 0 of 10-60 startups root 262 208 0 17:51 ? 00:00:00 containerd --config /var/run/docker/containerd/containerd.toml root 268 26 0 17:51 ? 00:00:00 /google/devshell/editor/proxy/editor static content dir=/google/devshell/editor/theta/lib etag file=/ root 269 25 0 17:51 ? 00:00:00 sudo /google/devshell/txmx-agent root 274 269 0 17:51 ? 00:00:00 /google/devshell/txmx-agent root 440 1 0 17:51 ? 00:00:00 sleep infinity root 443 268 0 17:51 ? 00:00:00 runner -l m_ata230406 -c export GOPATH=/home/m_ata230406/gopath:/google/gopath HOME=/home/m_ata230406 CLOUD root 444 443 0 17:51 ? 00:00:00 sh /bin/codebase-cloudshell -host=0.0.0.0 -port=3000 root 456 443 1 17:51 ? 00:00:00 /google/devshell/editor/code-oss-for-cloud-shell/node /google/devshell/editor/code-oss-for-cloud-shell/out/mo root 469 70 0 17:51 ? 00:00:00 sshd: m_ata230406@pts/4 root 479 1 0 17:51 ? 00:00:00 txmx new session A D n cloudshell a 488170092 m_ata23+ 480 479 0 17:51 pts/4 00:00:00 -bash root 490 70 0 17:51 ? 00:00:00 sshd: m_ata230406@pts/4 m_ata23+ 549 490 0 17:51 ? 00:00:00 sshd: m_ata230406@pts/4 m_ata23+ 657 549 0 17:51 pts/2 00:00:00 bash -c (cmd5 touch /var/run/google/devshell/4 m_ata23+ 670 657 0 17:51 pts/2 00:00:00 /bin/bash --rcfile /google/devshell/4 root 830 490 0 17:51 ? 00:00:00 sshd: m_ata230406@pts/2 m_ata23+ 849 830 0 17:51 pts/3 00:00:00 bash -c (sudo touch /var/run/google/devshell/40199 4) m_ata23+ 851 849 0 17:51 pts/3 00:00:00 /bin/bash --rcfile /google/devshell/40199 4 root 854 70 0 17:51 ? 00:00:00 sshd: m_ata230406@pts/4 m_ata23+ 925 857 0 17:51 pts/4 00:00:00 bash -c if [-f /google/devshell/start-shell.sh]; then /google/devshell/start-shell.sh '' 'sixth-drive-4 m_ata23+ 927 925 0 17:51 pts/4 00:00:00 /bin/bash /google/devshell/start-shell.sh sixth-drive-440806-b2 488193695 Laue m_ata23+ 936 927 0 17:51 pts/4 00:00:00 txmx new-session -A -u -n cloudshell -x 488193695</pre>

3	PENGELOLAAN IZIN FILE	 <p>The screenshot shows a Google Cloud Shell terminal window. The user has navigated to the directory ~/tugas_sistem_operasi and set permissions for two files: script.sh and info_system.sh. The commands and their outputs are as follows:</p> <pre> Welcome to Cloud Shell! Type "help" to get started. Your Cloud Platform project in this session is set to sixth-drive-440806-b2. Use "gcloud config set project [PROJECT ID]" to change to a different project. m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ cd tugas_sistem_operasi m_ata230486@cloudshell:~/tugas_sistem_operasi (sixth-drive-440806-b2)\$ chmod 700 script.sh m_ata230486@cloudshell:~/tugas_sistem_operasi (sixth-drive-440806-b2)\$ ls -l -rwxr-xr-x 1 m_ata230486 0 Dec 3 07:27 /home/m_ata230486/tugas_sistem_operasi/script.sh -rwxr-xr-x 1 m_ata230486 0 Dec 3 07:27 /home/m_ata230486/tugas_sistem_operasi/info_system.sh m_ata230486@cloudshell:~/tugas_sistem_operasi (sixth-drive-440806-b2)\$ </pre>
4	Shell scripting	 <p>The screenshot shows a Google Cloud Shell terminal window where the user has executed a shell script named script.sh. The script performs several actions: it sets permissions for info_system.sh, runs the script, and displays system information. The output of the script is as follows:</p> <pre> m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ touch ~/tugas_sistem_operasi/script.sh m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ chmod 700 ~/tugas_sistem_operasi/script.sh m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ ls -l ~/tugas_sistem_operasi/script.sh -rwxr-xr-x 1 m_ata230486 0 Dec 3 07:27 /home/m_ata230486/tugas_sistem_operasi/script.sh m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ touch ~/tugas_sistem_operasi/info_system.sh m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ chmod +x ~/tugas_sistem_operasi/info_system.sh m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ ~/tugas_sistem_operasi/info_system.sh m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ info_system.sh -bash: info_system.sh: command not found m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ echo "Waktu saat ini: \$(date)" Waktu saat ini: Tue Dec 3 07:50:09 AM UTC 2024 m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ echo "Pengguna yang sedang login: \$(whoami)" Pengguna yang sedang login: m_ata230486 m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ echo "Total penggunaan disk:" Total penggunaan disk: m_ata230486@cloudshell:~ (sixth-drive-440806-b2)\$ df -h Filesystem Size Used Avail Use% Mounted on overlay 95G 60G 35G 63% / tmpfs 64M 0 64M 0% /dev /dev/sdal 95G 60G 35G 63% /root /dev/disk/by-id/google-home-part1 4.8G 20M 4.6G 1% /home /dev/root 2.0G 1.2G 814M 59% /usr/lib/modules shm 64M 0 64M 0% /dev/shm tmpfs 1.6G 876K 1.6G 1% /google/host/var/run </pre>



The screenshot shows a Google Cloud console window with a terminal open. The terminal output shows a successful ping to www.google.com. The command executed is `ping www.google.com`. The output displays 27 successful ICMP echo requests, each with a response time between 0.318 ms and 0.506 ms. The terminal window is titled "Terminal (sixth-drive-440806-b2)" and is part of a "CLOUD SHELL" session. The browser tabs at the top include "translate inggris in...", "Upload files - 23-0...", "TUGAS 3", "Welcome - My Fir...", "ChatGPT | OpenAI", and "ChatGPT". The Google Cloud search bar is visible, and the date and time in the bottom right corner are 15:09 on 03/12/2024.

```
947a43e931f70a89d4dd32bb85fca/shm
m_ata230486@cloudshell:~ (sixth-drive-440806-b2) $ ping www.google.com
PING www.google.com (142.250.4.147) 56 (84) bytes of data:
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=1 ttl=114 time=2.95 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=2 ttl=114 time=0.401 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=3 ttl=114 time=0.388 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=4 ttl=114 time=0.395 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=5 ttl=114 time=0.445 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=6 ttl=114 time=0.417 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=7 ttl=114 time=0.417 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=8 ttl=114 time=0.477 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=9 ttl=114 time=0.318 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=10 ttl=114 time=0.371 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=11 ttl=114 time=0.347 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=12 ttl=114 time=0.506 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=13 ttl=114 time=0.580 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=14 ttl=114 time=0.553 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=15 ttl=114 time=0.421 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=16 ttl=114 time=0.555 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=17 ttl=114 time=0.426 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=18 ttl=114 time=0.351 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=19 ttl=114 time=0.410 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=20 ttl=114 time=0.365 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=21 ttl=114 time=0.349 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=22 ttl=114 time=0.359 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=23 ttl=114 time=0.455 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=24 ttl=114 time=0.319 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=25 ttl=114 time=0.371 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=26 ttl=114 time=0.455 ms
64 bytes from sm-in-147.1e100.net (142.250.4.147): icmp_seq=27 ttl=114 time=0.426 ms
```



The screenshot shows a Google Cloud console window with a terminal open. The terminal output shows a failed ping to www.google.com. The command executed is `ping -c 5 www.google.com`. The output displays 5 failed ICMP echo requests, each with a response time between 0.496 ms and 0.711 ms. The terminal window is titled "Terminal (sixth-drive-440806-b2)" and is part of a "CLOUD SHELL" session. The browser tabs at the top include "translate inggris in...", "Upload files - 23-0...", "TUGAS 3", "Welcome - My Fir...", "ChatGPT | OpenAI", and "ChatGPT". The Google Cloud search bar is visible, and the date and time in the bottom right corner are 15:10 on 03/12/2024.

```
^C
--- www.google.com ping statistics ---
105 packets transmitted, 105 received, 0% packet loss, time 106461ms
rtt min/avg/max/mdev = 0.276/0.451/2.848/0.246 ms
m_ata230486@cloudshell:~ (sixth-drive-440806-b2) $ ping -c 5 www.google.com
PING www.google.com (142.251.175.105) 56 (84) bytes of data:
64 bytes from sh-in-f105.1e100.net (142.251.175.105): icmp_seq=1 ttl=114 time=2.94 ms
64 bytes from sh-in-f105.1e100.net (142.251.175.105): icmp_seq=2 ttl=114 time=0.546 ms
64 bytes from sh-in-f105.1e100.net (142.251.175.105): icmp_seq=3 ttl=114 time=0.517 ms
64 bytes from sh-in-f105.1e100.net (142.251.175.105): icmp_seq=4 ttl=114 time=0.496 ms
64 bytes from sh-in-f105.1e100.net (142.251.175.105): icmp_seq=5 ttl=114 time=0.711 ms

--- www.google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4102ms
rtt min/avg/max/mdev = 0.496/1.041/2.936/0.950 ms
m_ata230486@cloudshell:~ (sixth-drive-440806-b2) $ ping www.google.com
PING www.google.com (142.251.12.104) 56 (84) bytes of data:
64 bytes from se-in-f104.1e100.net (142.251.12.104): icmp_seq=1 ttl=114 time=2.51 ms
64 bytes from se-in-f104.1e100.net (142.251.12.104): icmp_seq=2 ttl=114 time=0.527 ms
64 bytes from se-in-f104.1e100.net (142.251.12.104): icmp_seq=3 ttl=114 time=0.463 ms
64 bytes from se-in-f104.1e100.net (142.251.12.104): icmp_seq=4 ttl=114 time=0.475 ms
64 bytes from se-in-f104.1e100.net (142.251.12.104): icmp_seq=5 ttl=114 time=0.559 ms
64 bytes from se-in-f104.1e100.net (142.251.12.104): icmp_seq=6 ttl=114 time=0.790 ms
64 bytes from se-in-f104.1e100.net (142.251.12.104): icmp_seq=7 ttl=114 time=0.518 ms
64 bytes from se-in-f104.1e100.net (142.251.12.104): icmp_seq=8 ttl=114 time=0.632 ms
^C
--- www.google.com ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7128ms
rtt min/avg/max/mdev = 0.463/0.809/2.513/0.651 ms
m_ata230486@cloudshell:~ (sixth-drive-440806-b2) $
```