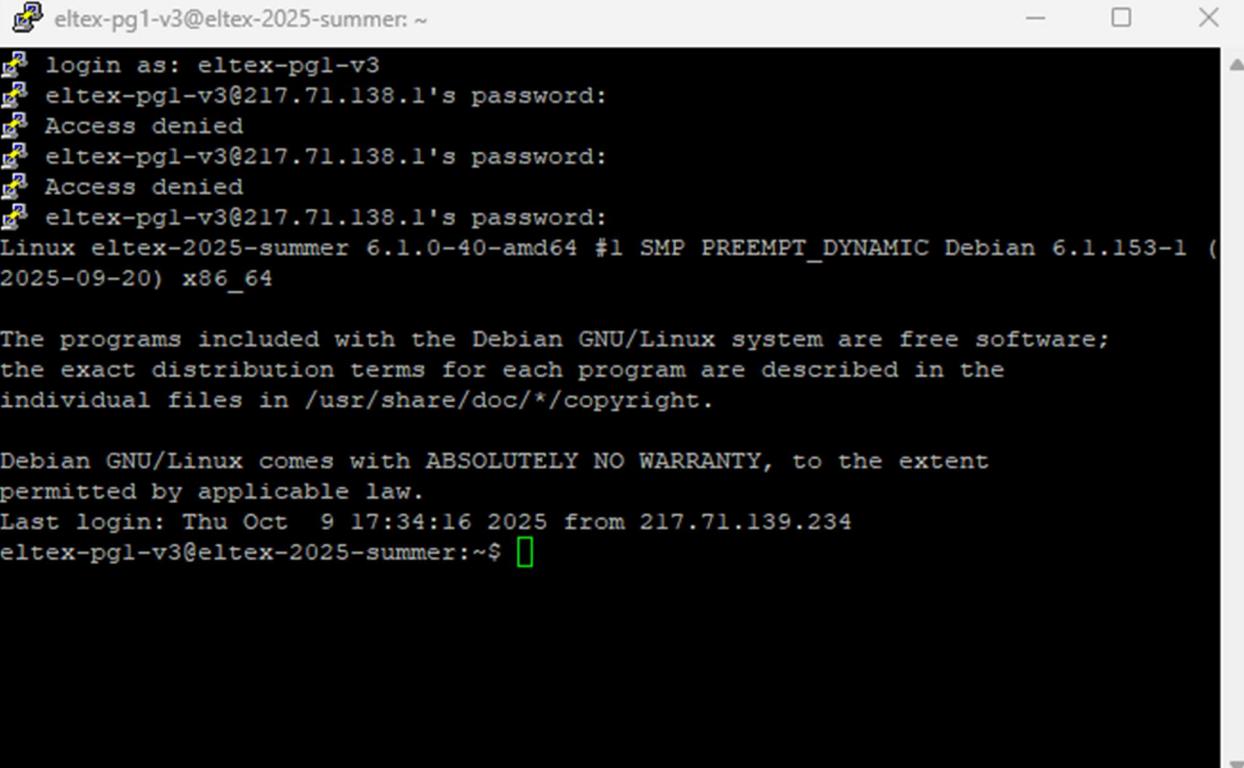


Подключитесь к серверу для выполнения практических работ, используя клиент для протокола ssh: ssh, putty, smartty (попробуйте их все и остановитесь на наиболее удобном для вас).

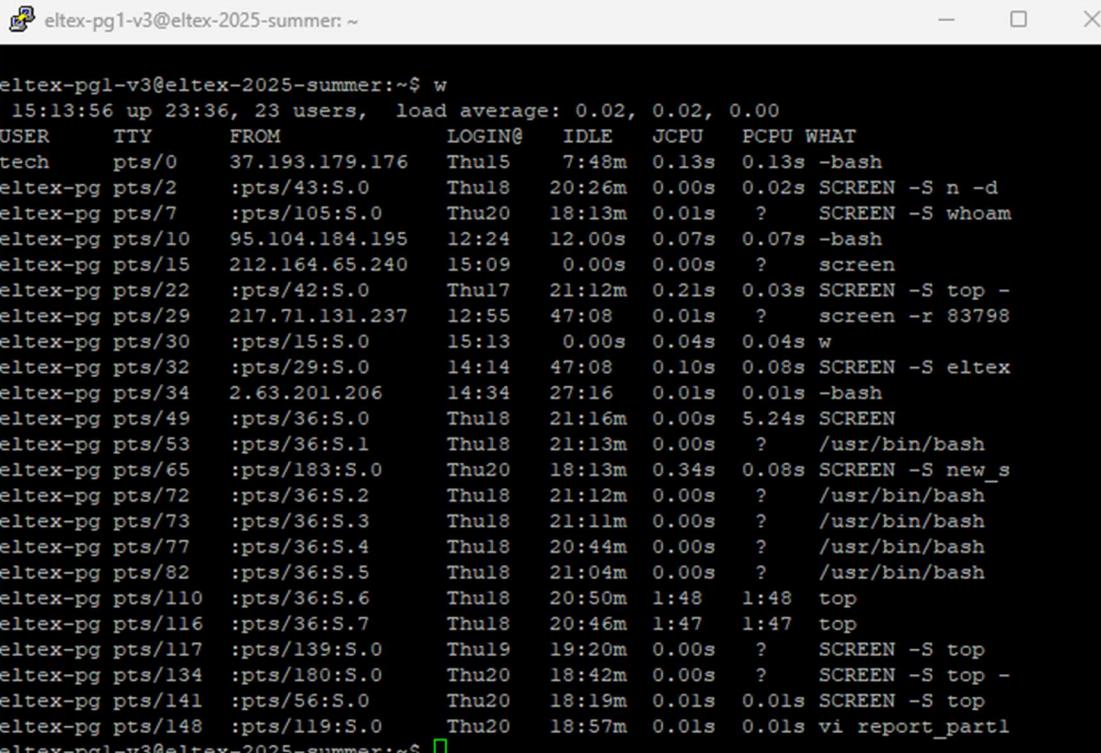


```
eltex-pgl-v3@eltex-2025-summer: ~
login as: eltex-pgl-v3
eltex-pgl-v3@217.71.138.1's password:
Access denied
eltex-pgl-v3@217.71.138.1's password:
Access denied
eltex-pgl-v3@217.71.138.1's password:
Linux eltex-2025-summer 6.1.0-40-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.153-1 (2025-09-20) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Thu Oct  9 17:34:16 2025 from 217.71.139.234
eltex-pgl-v3@eltex-2025-summer:~$
```

Запустите новую сессию утилиты screen, с именем по умолчанию, посмотрите список подключенных пользователей командой w, отключитесь от сессии.



```
eltex-pgl-v3@eltex-2025-summer:~$ w
15:13:56 up 23:36, 23 users,  load average: 0.02, 0.02, 0.00
USER      TTY      FROM          LOGIN@    IDLE     JCPU    PCPU WHAT
tech      pts/0    37.193.179.176  Thu15     7:48m   0.13s  0.13s -bash
eltex-pg  pts/2    :pts/43:S.0   Thu18     20:26m   0.00s  0.02s SCREEN -S n -d
eltex-pg  pts/7    :pts/105:S.0  Thu20     18:13m   0.01s  ?      SCREEN -S whoam
eltex-pg  pts/10   95.104.184.195 12:24    12.00s  0.07s  0.07s -bash
eltex-pg  pts/15   212.164.65.240 15:09    0.00s  0.00s  ?      screen
eltex-pg  pts/22   :pts/42:S.0   Thu17     21:12m   0.21s  0.03s SCREEN -S top -
eltex-pg  pts/29   217.71.131.237 12:55    47:08   0.01s  ?      screen -r 83798
eltex-pg  pts/30   :pts/15:S.0   15:13    0.00s  0.04s  0.04s w
eltex-pg  pts/32   :pts/29:S.0   14:14    47:08   0.10s  0.08s SCREEN -S eltex
eltex-pg  pts/34   2.63.201.206  14:34    27:16   0.01s  0.01s -bash
eltex-pg  pts/49   :pts/36:S.0   Thu18     21:16m   0.00s  5.24s SCREEN
eltex-pg  pts/53   :pts/36:S.1   Thu18     21:13m   0.00s  ?      /usr/bin/bash
eltex-pg  pts/65   :pts/183:S.0  Thu20     18:13m   0.34s  0.08s SCREEN -S new_s
eltex-pg  pts/72   :pts/36:S.2   Thu18     21:12m   0.00s  ?      /usr/bin/bash
eltex-pg  pts/73   :pts/36:S.3   Thu18     21:11m   0.00s  ?      /usr/bin/bash
eltex-pg  pts/77   :pts/36:S.4   Thu18     20:44m   0.00s  ?      /usr/bin/bash
eltex-pg  pts/82   :pts/36:S.5   Thu18     21:04m   0.00s  ?      /usr/bin/bash
eltex-pg  pts/110  :pts/36:S.6   Thu18     20:50m   1:48   1:48   top
eltex-pg  pts/116  :pts/36:S.7   Thu18     20:46m   1:47   1:47   top
eltex-pg  pts/117  :pts/139:S.0  Thu19     19:20m   0.00s  ?      SCREEN -S top
eltex-pg  pts/134  :pts/180:S.0  Thu20     18:42m   0.00s  ?      SCREEN -S top -
eltex-pg  pts/141  :pts/56:S.0   Thu20     18:19m   0.01s  0.01s SCREEN -S top
eltex-pg  pts/148  :pts/119:S.0  Thu20     18:57m   0.01s  0.01s vi report_partl
eltex-pgl-v3@eltex-2025-summer:~$
```

Запустите отссоединенную сессию утилиты screen, при этом запустите в этой сессии команду top. Назовите сессию именем «top».

Получите список сессий, созданных утилитой screen.

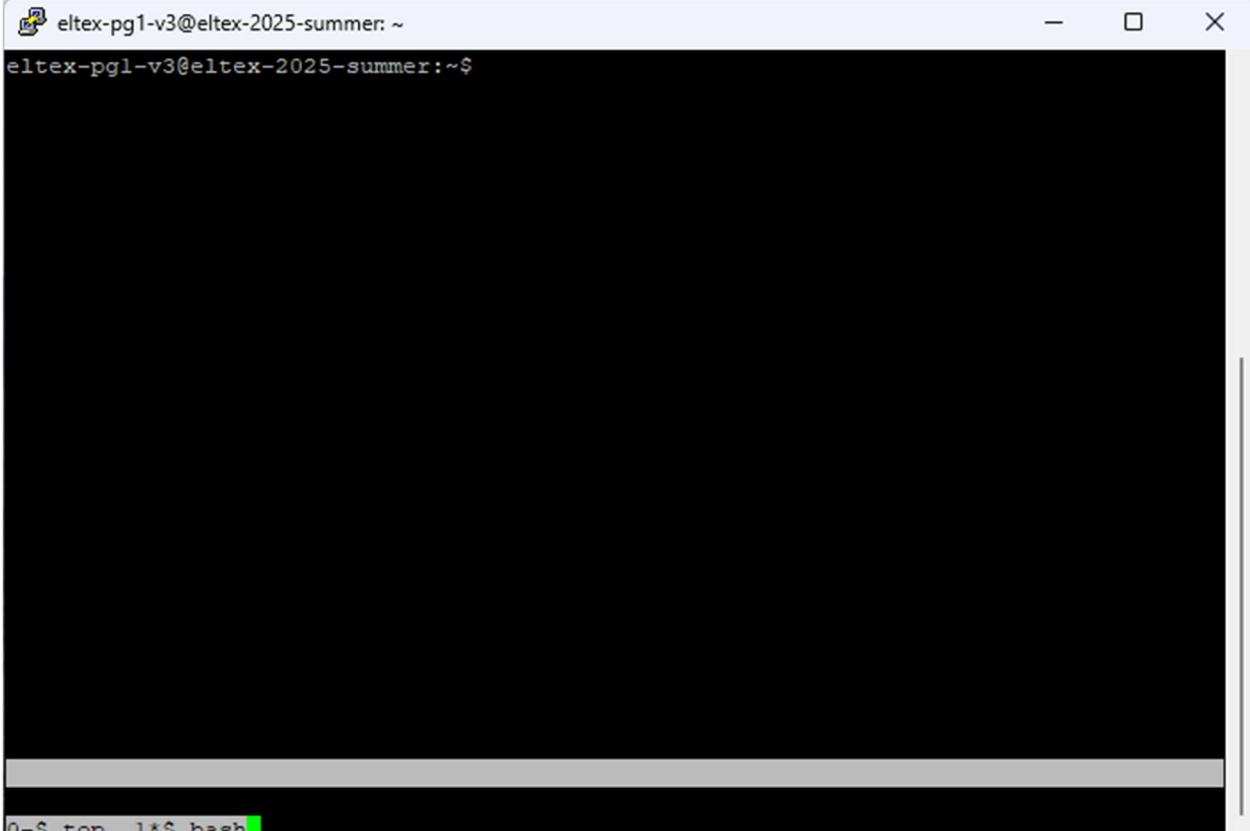
```
eltex-pg1-v3@eltex-2025-summer:~$ screen -S top -d -m top
eltex-pg1-v3@eltex-2025-summer:~$ screen -ls
There are screens on:
  938537.top          (10/10/2025 03:16:42 PM)          (Detached)
  936095 pts-15.eltex-2025-summer (10/10/2025 03:13:20 PM)      (Attached)
  2825 pts-10.eltex-2025-summer (10/09/2025 05:49:04 PM)      (Detached)
3 Sockets in /run/screen/S-eltex-pg1-v3.
eltex-pg1-v3@eltex-2025-summer:~$
```

Подсоединитесь к сессии top.

```
top - 15:19:29 up 23:41, 25 users,  load average: 0.00, 0.00, 0.00
Tasks: 456 total,   1 running, 429 sleeping,  26 stopped,   0 zombie
%Cpu(s):  0.4 us,  0.3 sy,  0.0 ni, 99.3 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  3914.7 total,     888.4 free,    923.8 used,   2345.1 buff/cache
MiB Swap:   976.0 total,     960.1 free,     15.9 used.   2990.9 avail Mem

      PID USER      PR  NI    VIRT    RES    SHR S %CPU %MEM TIME+ COMMAND
        15 root      20   0        0      0      0 I  0.3  0.0  0:08.19 rCU_pREEMPT
       898 eltex-p+  20   0   9204   3232   1736 S  0.3  0.1  0:06.67 screen
      5436 eltex-p+  20   0   11652   4996   2848 S  0.3  0.1  1:46.11 top
     20043 eltex-p+  20   0   11644   5028   2880 S  0.3  0.1  1:48.11 top
     89764 eltex-p+  20   0   11652   5060   2908 S  0.3  0.1  1:37.02 top
        1 root      20   0  168828  11828   7636 S  0.0  0.3  0:01.93 systemd
        2 root      20   0        0      0      0 S  0.0  0.0  0:00.01 kthreadd
        3 root      0 -20        0      0      0 I  0.0  0.0  0:00.00 rCU_gp
        4 root      0 -20        0      0      0 I  0.0  0.0  0:00.00 rCU_par_gp
        5 root      0 -20        0      0      0 I  0.0  0.0  0:00.00 slub_flushwq
        6 root      0 -20        0      0      0 I  0.0  0.0  0:00.00 netns
       10 root      0 -20        0      0      0 I  0.0  0.0  0:00.00 mm_percpu_wq
       11 root      20   0        0      0      0 I  0.0  0.0  0:00.00 rCU_tasks_kth+
       12 root      20   0        0      0      0 I  0.0  0.0  0:00.00 rCU_tasks_rud+
       13 root      20   0        0      0      0 I  0.0  0.0  0:00.00 rCU_tasks_trat+
       14 root      20   0        0      0      0 S  0.0  0.0  0:02.03 ksoftirqd/0
       16 root      rt   0        0      0      0 S  0.0  0.0  0:00.24 migration/0
       18 root      20   0        0      0      0 S  0.0  0.0  0:00.00 cpuhp/0
       19 root      20   0        0      0      0 S  0.0  0.0  0:00.00 cpuhp/1
       20 root      rt   0        0      0      0 S  0.0  0.0  0:00.45 migration/1
       21 root      20   0        0      0      0 S  0.0  0.0  0:01.53 ksoftirqd/1
```

Создайте еще одно окно в сессии top.

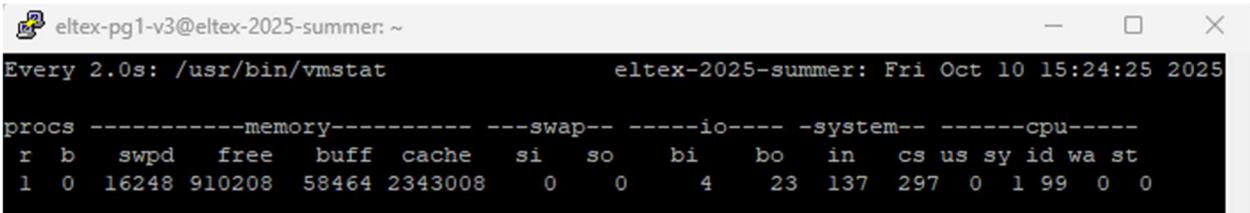


eltex-pg1-v3@eltex-2025-summer: ~

eltex-pg1-v3@eltex-2025-summer:~\$

0-\$ top 1*\$ bash

В созданном окне выполните команду: watch /usr/bin/vmstat



```
Every 2.0s: /usr/bin/vmstat          eltex-2025-summer: Fri Oct 10 15:24:25 2025
procs -----memory----- ---swap-- ----io---- -system-- -----cpu-----
 r b    swpd   free   buff   cache   si   so   bi   bo   in   cs us sy id wa st
 1 0    16248  910208  58464 2343008    0    0     4    23   137  297  0  1 99  0  0
```

Получите список окон.



Num	Name	Flags
0	top	\$
1	bash	\$

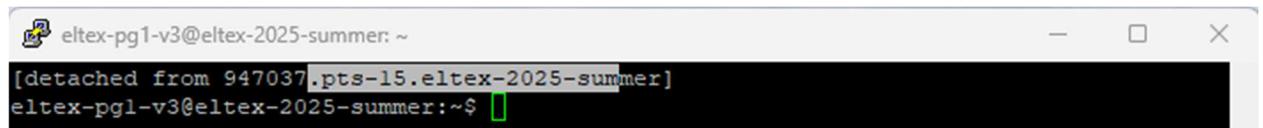
Переименуйте второе окно как «vmstat»



Num	Name	Flags
0	top	S
1	vmstat	S

Перейдите в окно, в котором работает top.

Отсоединитесь от сессии top.



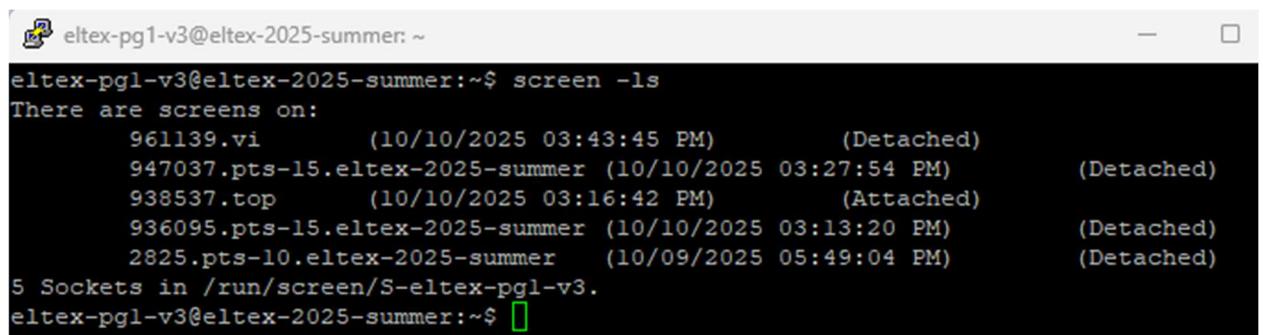
```
[detached from 947037.pts-15_eltex-2025-summer]
eltex-pgl-v3@eltex-2025-summer:~$
```

Запустите новую сессию и запустите в окне команду: vi report_part1.txt



```
"report part1.txt" [New]          0,0-1          All
```

Отсоединитесь от сессии и получите список сессий.



```
eltex-pgl-v3@eltex-2025-summer:~$ screen -ls
There are screens on:
  961139.vi          (10/10/2025 03:43:45 PM)          (Attached)
  947037.pts-15_eltex-2025-summer (10/10/2025 03:27:54 PM)      (Detached)
  938537.top          (10/10/2025 03:16:42 PM)          (Attached)
  936095.pts-15_eltex-2025-summer (10/10/2025 03:13:20 PM)      (Detached)
  2825.pts-10_eltex-2025-summer   (10/09/2025 05:49:04 PM)      (Detached)
5 Sockets in /run/screen/S-eltex-pgl-v3.
eltex-pgl-v3@eltex-2025-summer:~$
```

Отключитесь от сервера, используя команду `logout` или комбинацию клавиш `Ctrl+D`

```
eltex-pg1-v3@eltex-2025-summer: ~
```

Подключитесь к серверу (как в п.1), и получите список сессий screen

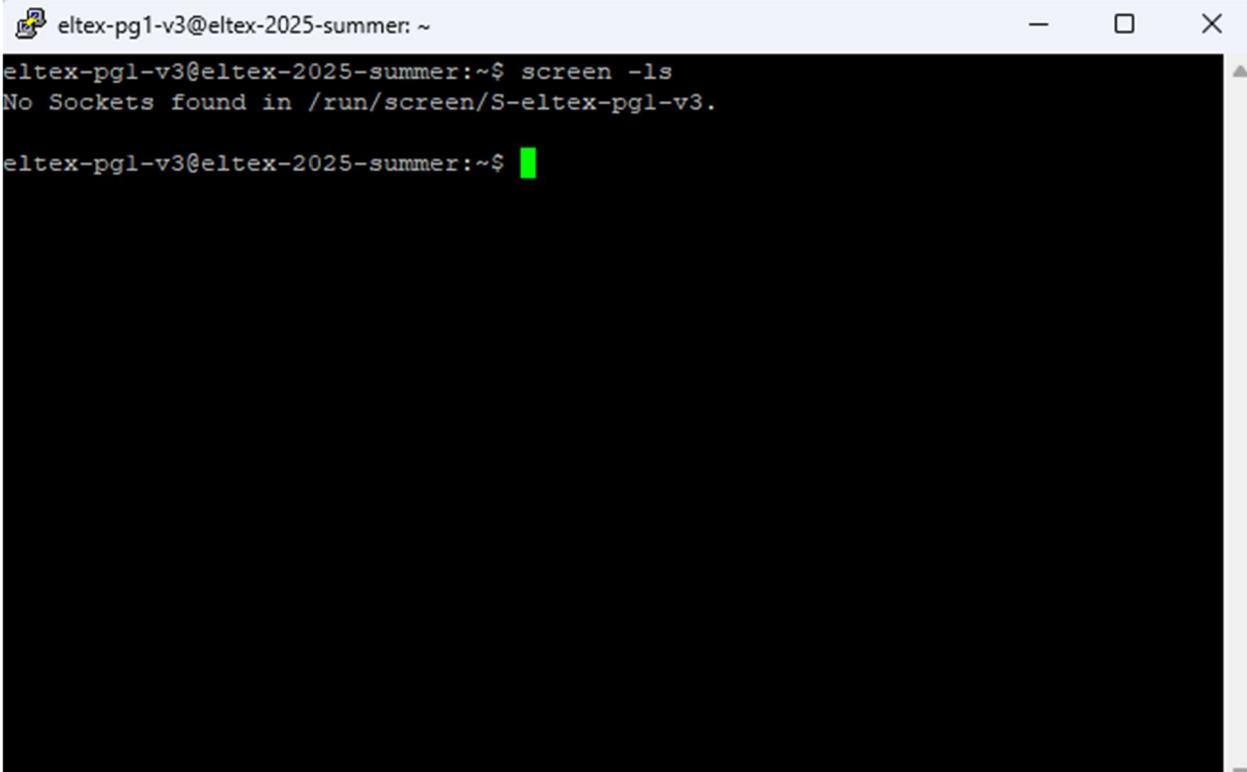
```
[~] eltex-pg1-v3@eltex-2025-summer: ~
[~] login as: eltex-pgl-v3
[~] eltex-pgl-v3@217.71.138.1's password:
Linux eltex-2025-summer 6.1.0-40-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.153-1 (2025-09-20) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Oct 10 15:42:26 2025 from 212.164.65.240
eltex-pgl-v3@eltex-2025-summer:~$ screen -ls
There are screens on:
      961139.vi          (10/10/2025 03:43:45 PM)          (Detached)
      947037.pts-15_eltex-2025-summer (10/10/2025 03:27:54 PM)          (Detache
d)      938537.top          (10/10/2025 03:16:42 PM)          (Attached)
      936095.pts-15_eltex-2025-summer (10/10/2025 03:13:20 PM)          (Detache
d)      2825.pts-10_eltex-2025-summer (10/09/2025 05:49:04 PM)          (Detache
d)
5 Sockets in /run/screen/S-eltex-pgl-v3.
eltex-pgl-v3@eltex-2025-summer:~$
```

Подключитесь к сессии с редактором и запишите в файл "ФИО часть 1 модуля 1 успешно завершена дата и время"

Закройте редактор, сохранив файл и закройте все сессии screen.



```
eltex-pgl-v3@eltex-2025-summer:~$ screen -ls
No Sockets found in /run/screen/S-eltex-pgl-v3.

eltex-pgl-v3@eltex-2025-summer:~$
```

A screenshot of a terminal window titled "eltex-pgl-v3@eltex-2025-summer: ~". The window contains the command "screen -ls" followed by its output: "No Sockets found in /run/screen/S-eltex-pgl-v3.". A green cursor is visible at the bottom of the terminal window.