UNIX ASSIGNMENT - 5

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SECTION - A

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SECTION - A

Using SSH command Execute the three programs on two different machines.

```
factorial of 5 = 24
factorial of 5 = 120
student@ai-HP-ProDesk-600-G4-MT:~$ gcc -o ptr_gdb ptr_gdb.c
student@ai-HP-ProDesk-600-G4-MT:~$ chmod a+x ptr_gdb
student@ai-HP-ProDesk-600-G4-MT:~$ ./ptr_gdb
Segmentation fault (core dumped)
student@ai-HP-ProDesk-600-G4-MT:~$ gcc -o ptr2_gdb ptr2_gdb.c
student@ai-HP-ProDesk-600-G4-MT:~$ chmod a+x ptr2_gdb
student@ai-HP-ProDesk-600-G4-MT:~$ ./ptr2_gdb
this line will not be reached due to segmentation fault
*** stack smashing detected ***: terminated
Aborted (core dumped)
student@ai-HP-ProDesk-600-G4-MT:~$ gcc -o server server.c
student@ai-HP-ProDesk-600-G4-MT:~$ chmod a+x server
student@ai-HP-ProDesk-600-G4-MT:~$ ./server
^C
student@ai-HP-ProDesk-600-G4-MT:~$ cat grep.txt
This is the first paragraph bla bla bla
This is another line in the same paragraph bla bla
This is a third line bla bla

This is the second paragraph bla bla bla
Second line bla bla My keyword is here!
bla bla bla
bla

Hey, third paragraph bla bla bla!
bla bla

keyword keyword
keyword
Another line! bla
student@ai-HP-ProDesk-600-G4-MT:~$ catunix_001.txt
catunix_001.txt: command not found
student@ai-HP-ProDesk-600-G4-MT:~$ cat unix_001.txt
1 vamshi
2 krishna
3 kiran
4 Mahesh
5 suresh
6 Maharaj
7 Nikitha
8 Komal
9 kamal
10 vimal
30 viraj
```

```
student@ai-HP-ProDesk-600-G4-MT:~$ ./ptr2_gdb
this line will not be reached due to segmentation fault
*** stack smashing detected ***: terminated
Aborted (core dumped)
student@ai-HP-ProDesk-600-G4-MT:~$ gcc -o server server.c
student@ai-HP-ProDesk-600-G4-MT:~$ chmod a+x server
student@ai-HP-ProDesk-600-G4-MT:~$ ./server
^C
student@ai-HP-ProDesk-600-G4-MT:~$ cat grep.txt
This is the first paragraph bla bla bla
This is another line in the same paragraph bla bla
This is a third line bla bla

This is the second paragraph bla bla bla
Second line bla bla My keyword is here!
bla bla bla
bla

Hey, third paragraph bla bla bla!
bla bla

keyword keyword
keyword
Another line! bla
student@ai-HP-ProDesk-600-G4-MT:~$ catunix_001.txt
catunix_001.txt: command not found
student@ai-HP-ProDesk-600-G4-MT:~$ cat unix_001.txt
1 vamshi
2 krishna
3 kiran
4 Mahesh
5 suresh
6 Maharaj
7 Nikitha
8 Komal
9 kamal
10 vimal
30 viraj
12 vinay
13 kranthi
14 kurmaya
15 man
16 women
17 umi
student@ai-HP-ProDesk-600-G4-MT:~$
```

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

```
student@ai-hp-prodesk-72:~$ ssh student@172.50.15.10
The authenticity of host '172.50.15.10 (172.50.15.10)' can't be established.
ECDSA key fingerprint is SHA256:3SBTK4OlmnsTeQVkfWEjwBJXMCtuG3Q6MY3r15PY/A4.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.50.15.10' (ECDSA) to the list of known hosts.
student@172.50.15.10's password:
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.13.0-39-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

481 updates can be applied immediately.
401 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Wed Apr  3 14:29:40 2024 from 172.50.11.76
student@ai-HP-ProDesk-600-G4-MT:~$ cd  Desktop
-bash: cd: Desktop: No such file or directory
student@ai-HP-ProDesk-600-G4-MT:~$ cd
student@ai-HP-ProDesk-600-G4-MT:~$ ls
'}'                         probing622176.py
 422120                     prolog.pl
 422139                     ptr2_gdb.c
 622176                     ptr_gdb.c
 622204                     RARPclient.class
 a.out                      RARPclient.java
 ARPClient.class            RARPserver.class
 ARPClient.java             RARPserver.java
 ARPServer.class            read
 ARPServer.java            'result='
 assignment622176.py       'Screenshot from 2024-01-08 11-46-05.png'
 capital.txt               'Screenshot from 2024-01-08 12-03-32.png'
 chatbox.jpg.zip           'Screenshot from 2024-01-08 12-13-26.png'
 chatbox.odt               'Screenshot from 2024-01-08 12-13-45.png'
 chatbox.pdf               'Screenshot from 2024-03-04 16-27-57.png'
 cities.txt                'Screenshot from 2024-03-04 16-34-02.png'
 Clientarp.java            'Screenshot from 2024-03-13 15-48-34.png'
 client.class              'Screenshot from 2024-03-13 15-48-45.png'
 client.java               'Screenshot from 2024-03-13 15-49-14.png'
 countingsort622176.py     'Screenshot from 2024-03-13 16-03-57.png'
'Detect Bone(1).zip'       'Screenshot from 2024-03-13 16-04-02.png'
```

student   occ.sh   tail.sh   nope.txt

student@ai-hp-prodesk-72: ~

```
student@ai-hp-prodesk-72:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN grou
p default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eno1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state
 UP group default qlen 1000
    link/ether 10:e7:c6:30:38:6a brd ff:ff:ff:ff:ff:ff
    altname enp0s31f6
3: wlp2s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue stat
e UP group default qlen 1000
    link/ether fc:01:7c:8e:83:99 brd ff:ff:ff:ff:ff:ff
    inet 172.50.11.170/20 brd 172.50.15.255 scope global dynamic noprefi
xroute wlp2s0
       valid_lft 5206sec preferred_lft 5206sec
    inet6 fe80::bb3a:bf06:a580:64fb/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
student@ai-hp-prodesk-72:~$ who
student  :0          2024-04-03 14:13 (:0)
student  pts/1       2024-04-03 14:27 (172.50.11.170)
student@ai-hp-prodesk-72:~$
```

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

```
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eno1: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc fq_codel state DOW
N group default qlen 1000
    link/ether 10:e7:c6:36:bb:23 brd ff:ff:ff:ff:ff:ff
    altname enp0s31f6
3: wlp2s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP g
roup default qlen 1000
    link/ether fc:01:7c:8e:54:03 brd ff:ff:ff:ff:ff:ff
    inet 172.50.15.10/20 brd 172.50.15.255 scope global dynamic noprefixroute
wlp2s0
       valid_lft 4135sec preferred_lft 4135sec
    inet6 fe80::8622:fae1:de5b:7c8e/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
student@ai-HP-ProDesk-600-G4-MT:~$ who
student  :0          2024-04-03 14:02 (:0)
student  pts/1       2024-04-03 14:29 (172.50.11.76)
student  pts/2       2024-04-03 14:43 (172.50.11.170)
student@ai-HP-ProDesk-600-G4-MT:~$
```

sum_of_m.sh   head.sh