

UNIX ASSIGNMENT - 5

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ROLL NO - 422119
SECTION - A

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ROLL NO - 422172
SECTION - A

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

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Activities Terminal Apr 3 2:44 PM
student@al-HP-ProDesk-600-G4-MT: ~

student@al-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 SHA256:3SBTK40LmsTeQVkfWEjwBjXMctuG3Q6MY3r15PY/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@al-HP-ProDesk-600-G4-MT:~$ cd Desktop
-bash: cd: Desktop: No such file or directory
student@al-HP-ProDesk-600-G4-MT:~$ cd
student@al-HP-ProDesk-600-G4-MT:~$ ls
'.'
422120      probIng622176.py
422139      prolog.pl
622176      ptr2_gdb.c
622204      ptr_gdb.c
a.out       RARPClient.class
ARPCClient.class  RARPClient.java
ARPCClient.java   RARPServer.class
ARPServer.class   RARPServer.java
ARPServer.java    read
assignment622176.py 'result='
capital.txt       'Screenshot from 2024-01-08 11-46-05.png'
chatbox.jpg.zip   'Screenshot from 2024-01-08 12-03-32.png'
chatbox.odt       'Screenshot from 2024-01-08 12-13-26.png'
chatbox.pdf       'Screenshot from 2024-01-08 12-13-45.png'
cities.txt        'Screenshot from 2024-03-04 16-27-57.png'
Clientarp.java    'Screenshot from 2024-03-04 16-34-02.png'
client.class      'Screenshot from 2024-03-13 15-48-34.png'
client.java       'Screenshot from 2024-03-13 15-48-45.png'
countingsort622176.py 'Screenshot from 2024-03-13 15-49-14.png'
'Detect_Bone(1).zip' 'Screenshot from 2024-03-13 16-03-57.png'
'Detect_Bone(1).zip' 'Screenshot from 2024-03-13 16-04-02.png'
```

```
Activities Terminal Apr 3 2:51 PM
student@al-HP-ProDesk-600-G4-MT: ~

'Detect_Bone(1).zip' 'Screenshot from 2024-03-13 16-04-02.png'
dfs622176.py         'Screenshot from 2024-03-13 16-04-16.png'
dijkstraalgo622176.py 'Screenshot from 2024-03-13 16-04-43.png'
echo                'Screenshot from 2024-03-13 16-18-29.png'
else                'Screenshot from 2024-03-13 16-18-35.png'
fact_gdb.c          'Screenshot from 2024-03-13 16-18-38.png'
fl                  'Screenshot from 2024-03-13 16-18-43.png'
graphtraversal622176.py 'Screenshot from 2024-04-03 14-20-17.png'
greedyalgo622176.py   'Screenshot from 2024-04-03 14-20-25.png'
grep.txt            'Screenshot from 2024-04-03 14-22-26.png'
hashchaining622176.py 'server$HandelAClient.class'
ip.class            Serverarp.java
ip.java             server.c
Lab                 server.class
lab_2.py            server.java
lab622176.py        snap
linkedList622176.py state.txt
'minimum spanning tree.py' 'tree traversal.py'
name.txt            unix_001.txt
nrml.java           'Untitled 1.pdf'
num.txt             week6.sql
priorityqueue622176.py
student@al-HP-ProDesk-600-G4-MT:~$ cat state.txt
arunachal pradesh
assam
telangana
bihar
chattisgarh
madhya pradesh
east blue
west blue
south blue
north blu
student@al-HP-ProDesk-600-G4-MT:~$ cat name.txt
Apar
Henant
Lucky
Pranjal Thakral
student@al-HP-ProDesk-600-G4-MT:~$ gcc -o fact_gdb fact_gdb.c
student@al-HP-ProDesk-600-G4-MT:~$ chmod a+x fact_gdb
student@al-HP-ProDesk-600-G4-MT:~$ ./fact_gdb
enter a positive integer:5
Factorial of 5 = 1
Factorial of 5 = 2
Factorial of 5 = 6
Factorial of 5 = 24
```

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Activities Terminal Apr 3 2:51 PM student@al-HP-ProDesk-600-G4-MT: ~
factorial of 5 = 24
factorial of 5 = 120
student@al-HP-ProDesk-600-G4-MT:~$ gcc -o ptr_gdb ptr_gdb.c
student@al-HP-ProDesk-600-G4-MT:~$ chmod a+x ptr_gdb
student@al-HP-ProDesk-600-G4-MT:~$ ./ptr_gdb
Segmentation fault (core dumped)
student@al-HP-ProDesk-600-G4-MT:~$ gcc -o ptr2_gdb ptr2_gdb.c
student@al-HP-ProDesk-600-G4-MT:~$ chmod a+x ptr2_gdb
student@al-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@al-HP-ProDesk-600-G4-MT:~$ gcc -o server server.c
student@al-HP-ProDesk-600-G4-MT:~$ chmod a+x server
student@al-HP-ProDesk-600-G4-MT:~$ ./server
AC
student@al-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@al-HP-ProDesk-600-G4-MT:~$ cat unix_001.txt
catunix_001.txt: command not found
student@al-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
```

```
Activities Terminal Apr 3 2:51 PM student@al-HP-ProDesk-600-G4-MT: ~
student@al-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@al-HP-ProDesk-600-G4-MT:~$ gcc -o server server.c
student@al-HP-ProDesk-600-G4-MT:~$ chmod a+x server
student@al-HP-ProDesk-600-G4-MT:~$ ./server
AC
student@al-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@al-HP-ProDesk-600-G4-MT:~$ cat unix_001.txt
catunix_001.txt: command not found
student@al-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 kurnaya
15 man
16 women
17 umi
student@al-HP-ProDesk-600-G4-MT:~$
```

```
Activities Terminal Apr 3 2:44 PM 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 SHA256:3S8TK40lmsTeQVkfWEjwBJXMcTuG3Q6MY3r15PY/A4.
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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  422139  ptr2_gdb.c
622176  622204  ptr_gdb.c
a.out   ARPClient.class  RARPClient.class
        ARPClient.java  RARPClient.java
        ARPServer.class  RARPServer.class
        ARPServer.java  RARPServer.java
        read
assignment622176.py  'result='
capital.txt          'Screenshot from 2024-01-08 11-46-05.png'
chatbox.jpg.zip      'Screenshot from 2024-01-08 12-03-32.png'
chatbox.odt          'Screenshot from 2024-01-08 12-13-26.png'
chatbox.pdf          'Screenshot from 2024-01-08 12-13-45.png'
cities.txt           'Screenshot from 2024-03-04 16-27-57.png'
clientarp.java       'Screenshot from 2024-03-04 16-34-02.png'
client.class         'Screenshot from 2024-03-13 15-48-34.png'
client.java          'Screenshot from 2024-03-13 15-48-45.png'
countingsort622176.py 'Screenshot from 2024-03-13 15-49-14.png'
Detect_Rune11.exe    'Screenshot from 2024-03-13 16-03-57.png'
Screenshot from 2024-03-13 16-04-07.png
```

Activities Terminal Apr 3 2:58 PM

student@ai-hp-prodesk-72: ~

student@ai-hp-prodesk-72:~\$ ip a

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group 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 DOWN 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 state 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 noprefroute wlp2s0
valid_lft 5206sec preferred_lft 5206sec
inet6 fe80::bb3a:bf06:a580:64fb/64 scope link noprefroute
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 DOWN 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 group 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 noprefroute wlp2s0
valid_lft 4135sec preferred_lft 4135sec
inet6 fe80::8622:fae1:de5b:7c8e/64 scope link noprefroute
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:~\$