NAME: K.PARDHIVA SAI BHAGAVAN

ROLL NO: 422164

SEC: A

TITLE: UNIX LAB TASK (SSH COMMAND)

SYSTEM -1:

A) Establishing Connection:

B)Connection Established:

```
Your Hardware Enablement Stack (HWE) is supported until April 2025.

Last login: Wed Mar 20 14:59:53 2024 from 172.50.10.70
(base) student@ai-HP-ProDesk-600-G4-MT:-\Desktop\State (base) student@ai-HP-ProDesk-600-G4-MT:-\Desktop\Sta
```

C)Running programs:

(1. awk 2. sed 3. echo)

(here the output files awk_out.txt sed_output1.txt are created and they can be seen in Is command)

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cd 422167
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167$ ls
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167$ cd Unix
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ls
 awk.sh file1.txt sed.sh
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ chmod +x awk.sh
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ./awk.sh
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ./awk.sh >> awk out.txt
awk: cmd. line:1: (FILENAME=file1.txt FNR=1) fatal: printf: no arguments
 base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ls
awk out.txt awk.sh file1.txt sed.sh
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ./sed.sh >> sed_output1.txt
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ls
awk_out.txt awk.sh file1.txt sed_output1.txt sed_output.txt sed.sh
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ./sed.sh
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ./sed.sh

(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ls

awk_output1.txt awk_out.txt awk.sh echo.sh file1.txt sed_output1.txt sed_output.txt sed.sh

(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ chmod +x echo.sh

(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ./echo.sh >> echo_out.txt

(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ ls

awk_output1.txt awk_out.txt awk.sh echo_out.txt echo.sh file1.txt sed_output1.txt sed_output.txt sed.sh

(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$ cat echo_out.txt
HELLO !!!
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422167/Unix$
```

NOTE: Output files are not shown in assignment instead I have shown that the output files are created in the directory by using Is command after every output

SYSTEM - 2:

N-QUEENS, FACTORIAL OF A NUMBER

```
student@labdesktop:-$ ssh student@172.50.10.64
student@172.50.10.64's password:
Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-88-generic x86_64)
    * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
 282 updates can be applied immediately.
164 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.
3 updates could not be installed automatically. For more details,
see /var/log/unattended-upgrades/unattended-upgrades.log
Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Wed Mar 20 16:12:37 2024 from 172.50.15.41
student@ai-HP-ProDesk-600-G4-MT:-> cd Desktop
student@ai-HP-ProDesk-600-G4-MT:-/Desktop$ ls
422113.java a a.out BitStuff.java s1223.py slid.java sshRev3.png stuffing.class UNIX
622133 ABCD ap.html DBMS s1233.py sshRev1.png sshRev4.png task22.cpp unixp
6.pp afv.py BitStuff.class 'np lab' sandeep.queue5.1.24 sshRev2.png sshRev5.png tcp.java
    student@at-HP-Probesk-800-04-HI:-/Desktop3
422113.java a a.out BitStuff.java s
622133 ABCD ap.html DBMS
6.py afv.py BitStuff.class 'np lab' s
student@at-HP-Probesk-600-G4-MT:-/Desktop$ python3 afv.py
 student@al-HP-ProDesk-600-G4-MI:~/Desktop$ python3 aTV.py
factorial of 5 is : 120
student@al-HP-ProDesk-600-G4-MI:~/Desktop$ cd UNIX
student@al-HP-ProDesk-600-G4-MI:~/Desktop/UNIX$ cd week_6
student@al-HP-ProDesk-600-G4-MI:~/Desktop/UNIX/week_6$ ./Build_And_Run.sh
Executing main program with static library...
 Enter no. of Queens: 3
Solution does not exist
Executing main program with dynamic library...
 Enter no.of Queens : 4
Solution does not exist
Compilation successful
| student@al-HP-ProDesk-600-G4-MT:~/Desktop/UNIX/week_6$ 5
| Executing main program with static library...
| Enter no.of Queens : 5
| 1 0 0 0 0
| 3 UpuBatec
stuffing.class UNIX
task22.cpp unixp
tcp.java
 5.py

student@al-HP-ProDesk-600-u4-m; /pe

factorial of 5 is : 120

student@al-HP-ProDesk-600-G4-MT:~/Desktop$ cd UNIX

student@al-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ cd week_6

student@al-HP-ProDesk-600-G4-MT:~/Desktop/UNIX/week_6$ ./Build_And_Run.sh
Executing main program with static library...
Enter no.of Queens : 3
Solution does not exist
Executing main program with dynamic library...
Enter no.of Queens : 4
 Solution does not exist
Compilation successful
student@al-HP-ProDesk-600-G4-MT:~/Desktop/UNIX/week_6$ 5

Executing main program with static library...

Enter no. of Queens : 5

1 0 0 0 0

0 0 0 1 0

0 1 0 0 0

0 0 0 1 0

0 1 0 0
Executing main program with dynamic library...
Enter no.of Queens : 6
Solution does not exist
Compilation successful
    omptiation sacessruc
tudent@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX/week_6$ cd
tudent@ai-HP-ProDesk-600-G4-MT:~$ cd Desktop
tudent@ai-HP-ProDesk-600-G4-MT:~/Desktop$ python3 s1223.py
 123Enter the number to push3
 3333
 333student@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```