UNIX ASSIGNMENT:5 NAME:JOSHUA STEPHEN SEC:A ROLL NUMBER:422148
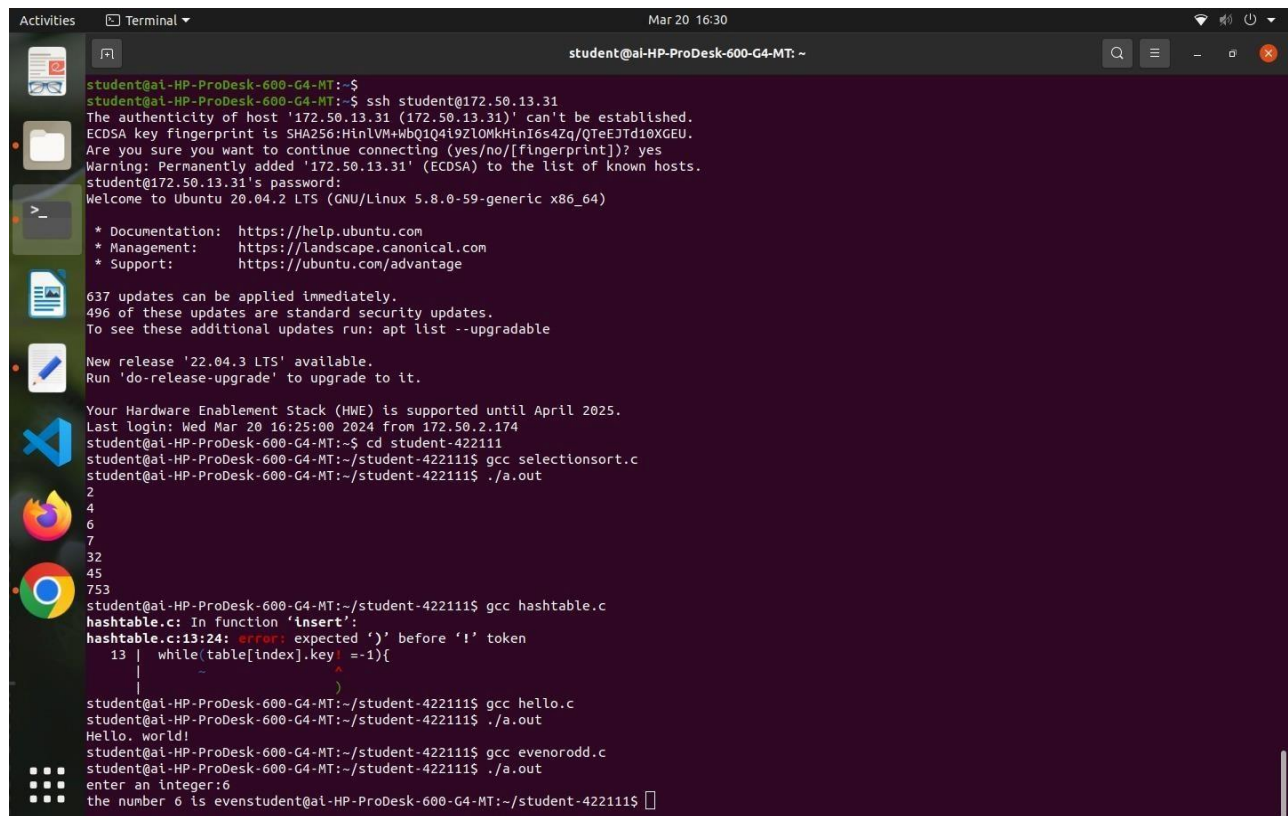
1. Using SSH command execute the three programs on two different machines.

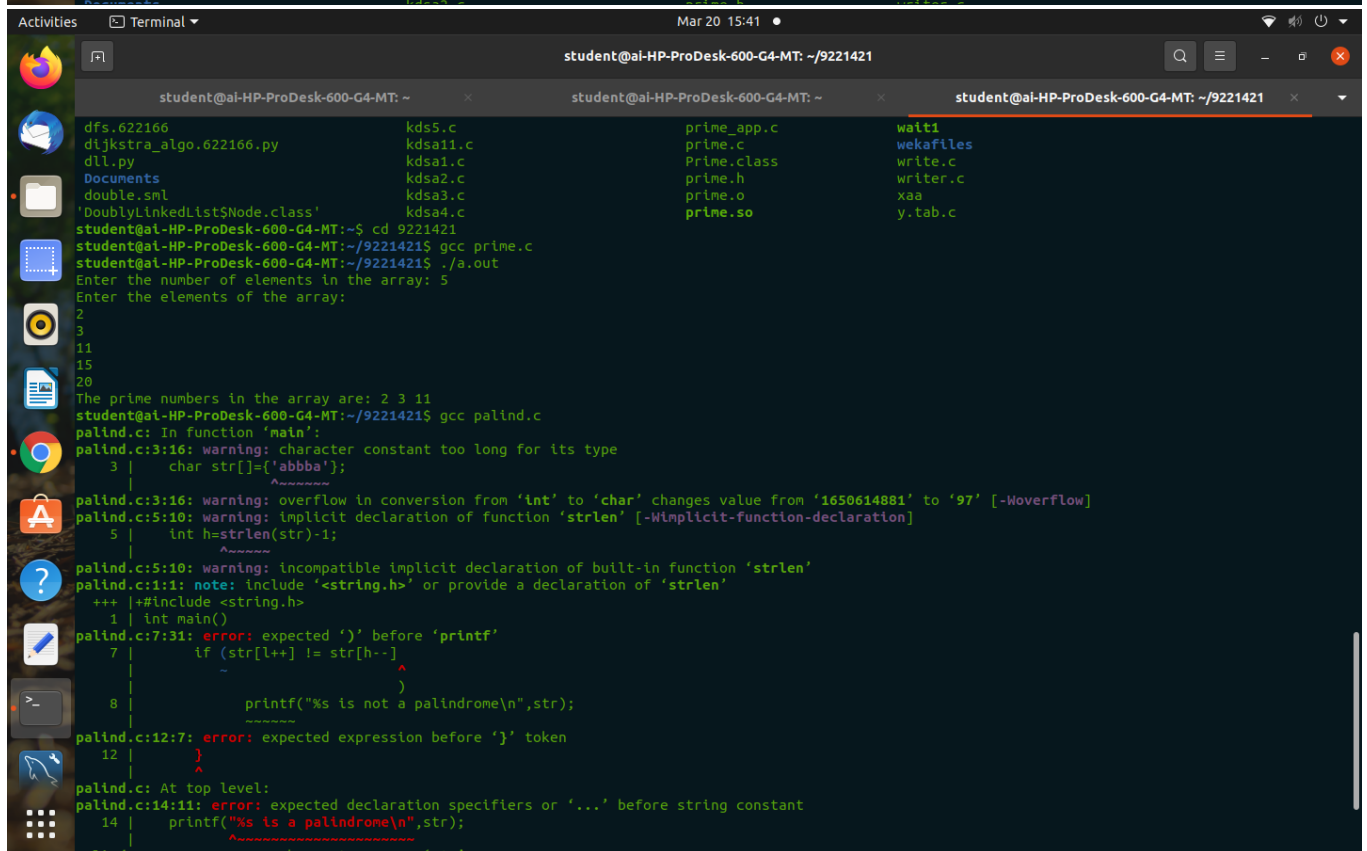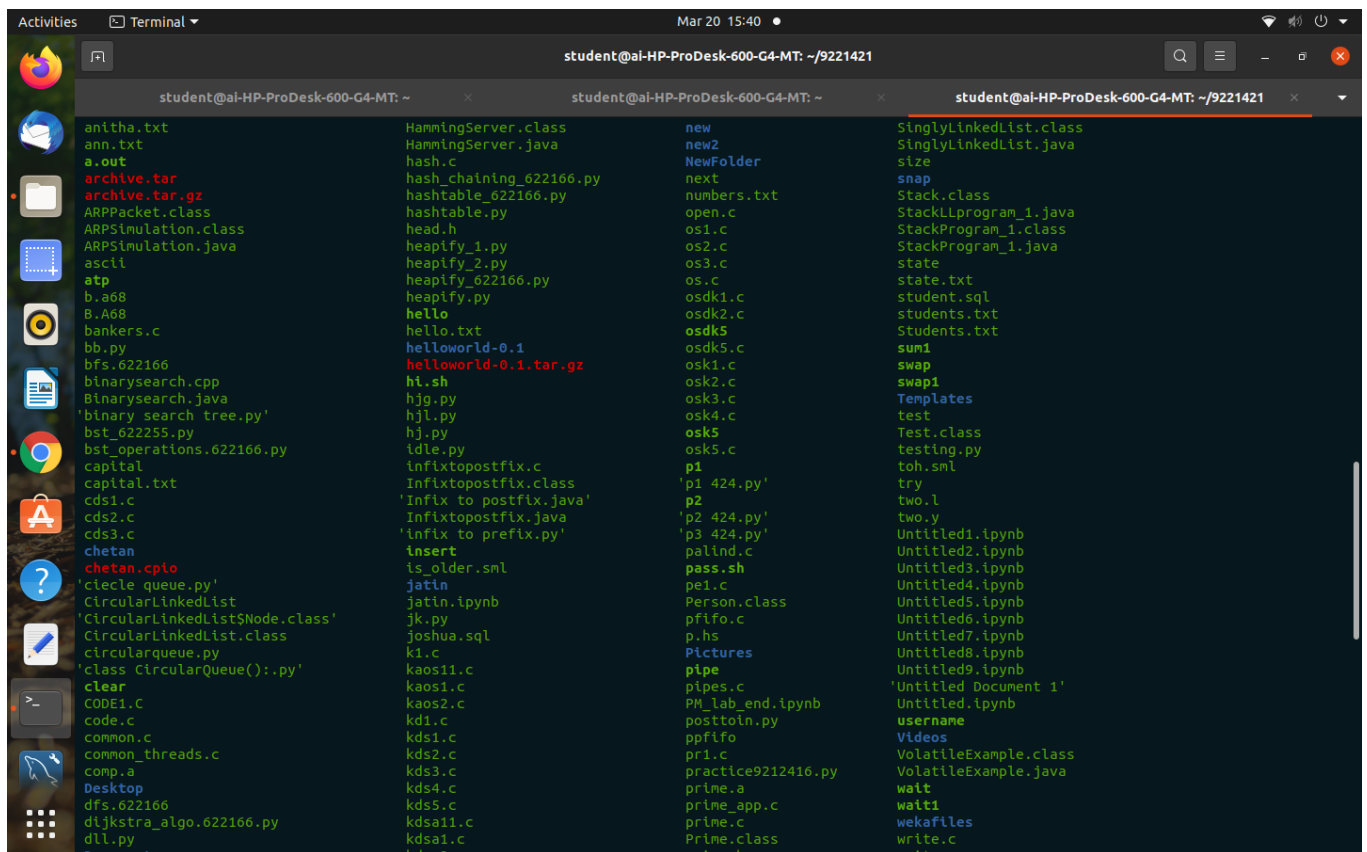# Code:

student@ai-HP-ProDesk-600-G4-MT: ~/9221421

student@ai-HP-ProDesk-600-G4-MT: ~ | student@ai-HP-ProDesk-600-G4-MT: ~ | student@ai-HP-ProDesk-600-G4-MT: ~/9221421

```
student@ai-HP-ProDesk-600-G4-MT:~$ ssh student@172.50.11.148
student@172.50.11.148's password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-100-generic x86_64)

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

1 device has a firmware upgrade available.
Run `fwupdmgr get-upgrades` for more information.


Expanded Security Maintenance for Applications is not enabled.

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

17 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm

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 Mar 20 15:33:10 2024 from 172.50.2.174
student@ai-HP-ProDesk-600-G4-MT:~$ ls
1.c.sql              DoublyLinkedList.class   keEndLab.ipynb      prim.py
2.3                  'doubly linked list.py'  kk1.c               prims_algorithm_622166.py
3.2                  doublyll.py              kkd1.c              priorityqueue._622166.py
3des.py              doublylnkedlist2.py      kkdsa1.c            priorityqueueusinglinkedlist.py
3.py                 dsa.cinsert             kkdsa2.c            producer.c
4119                 eclipse                 kkdsa3.c            product1
411935               eclipse-workspace       kl1.c               product1.hi
411935.zip           eg_static.a             kno2.pl             product1.hs
420138               Employee.class          kno3.pl             product1.o
420203               e.py                    kno.pl              product.hs
421154               even                    know.pl             program_1.java
421154_2.sql         exit                    kos11.c             Program.class
421154.sql           fact.hs                 kos1.c              program.java
421209               family.pl               kos2.c              project
4.4                  fcfs.c                  kos3.c              Public
4.l                  fibanocci.a             kos4.c              Public.class
```

```
anitha.txt                 HammingServer.class        new                   SinglyLinkedList.class
ann.txt                    HammingServer.java         new2                  SinglyLinkedList.java
a.out                      hash.c                     NewFolder             size
archive.tar                hash_chaining_622166.py    next                  snap
archive.tar.gz             hashtable_622166.py        numbers.txt           Stack.class
ARPPacket.class            hashtable.py               open.c                StackLLprogram_1.java
ARPSimulation.class        head.h                     os1.c                 StackProgram_1.class
ARPSimulation.java         heapify_1.py               os2.c                 StackProgram_1.java
ascii                      heapify_2.py               os3.c                 state
atp                        heapify_622166.py          os.c                  state.txt
b.a68                      heapify.py                 osdk1.c               student.sql
B.A68                      hello                      osdk2.c               students.txt
bankers.c                  hello.txt                  osdk5                 Students.txt
bb.py                      helloworld-0.1             osdk5.c               sum1
bfs.622166                 helloworld-0.1.tar.gz      osk1.c                swap
binarysearch.cpp           hi.sh                      osk2.c                swap1
Binarysearch.java          hjg.py                     osk3.c                Templates
'binary search tree.py'    hjl.py                     osk4.c                test
bst_622255.py              hj.py                      osk5                  Test.class
bst_operations.622166.py   idle.py                    osk5.c                testing.py
capital                    infixtopostfix.c           p1                    toh.sml
capital.txt                Infixtopostfix.class       'p1 424.py'           try
cds1.c                     'Infix to postfix.java'    p2                    two.l
cds2.c                     Infixtopostfix.java        'p2 424.py'           two.y
cds3.c                     'infix to prefix.py'       'p3 424.py'           Untitled1.ipynb
chetan                     insert                     palind.c              Untitled2.ipynb
chetan.cpio                is_older.sml               pass.sh               Untitled3.ipynb
'ciecle queue.py'          jatin                      pe1.c                 Untitled4.ipynb
CircularLinkedList         jatin.ipynb                Person.class          Untitled5.ipynb
'CircularLinkedList$Node.class'  jk.py                pfifo.c               Untitled6.ipynb
CircularLinkedList.class   joshua.sql                 p.hs                  Untitled7.ipynb
circularqueue.py           k1.c                       Pictures              Untitled8.ipynb
'class CircularQueue():.py'  kaos11.c                 pipe                  Untitled9.ipynb
clear                      kaos1.c                    pipes.c               'Untitled Document 1'
CODE1.C                    kaos2.c                    PM_lab_end.ipynb      Untitled.ipynb
code.c                     kd1.c                      posttoin.py           username
common.c                   kds1.c                     ppfifo                Videos
common_threads.c           kds2.c                     pr1.c                 VolatileExample.class
comp.a                     kds3.c                     practice9212416.py    VolatileExample.java
Desktop                    kds4.c                     prime.a               wait
dfs.622166                 kds5.c                     prime_app.c           wait1
dijkstra_algo.622166.py    kdsa11.c                   prime.c               wekafiles
dll.py                     kdsa1.c                    Prime.class           write.c
```

```
dfs.622166                 kds5.c                     prime_app.c           wait1
dijkstra_algo.622166.py    kdsa11.c                   prime.c               wekafiles
dll.py                     kdsa1.c                    Prime.class           write.c
Documents                  kdsa2.c                    prime.h               writer.c
double.sml                 kdsa3.c                    prime.o               xaa
'DoublyLinkedList$Node.class'  kdsa4.c                prime.so              y.tab.c
student@ai-HP-ProDesk-600-G4-MT:~$ cd 9221421
student@ai-HP-ProDesk-600-G4-MT:~/9221421$ gcc prime.c
student@ai-HP-ProDesk-600-G4-MT:~/9221421$ ./a.out
Enter the number of elements in the array: 5
Enter the elements of the array:
2
3
11
15
20
The prime numbers in the array are: 2 3 11
student@ai-HP-ProDesk-600-G4-MT:~/9221421$ gcc palind.c
palind.c: In function 'main':
palind.c:3:16: warning: character constant too long for its type
    3 |    char str[]={'abbba'};
      |               ^~~~~~~
palind.c:3:16: warning: overflow in conversion from 'int' to 'char' changes value from '1650614881' to '97' [-Woverflow]
palind.c:5:10: warning: implicit declaration of function 'strlen' [-Wimplicit-function-declaration]
    5 |    int h=strlen(str)-1;
      |          ^~~~~~
palind.c:5:10: warning: incompatible implicit declaration of built-in function 'strlen'
palind.c:1:1: note: include '<string.h>' or provide a declaration of 'strlen'
  +++ |+#include <string.h>
    1 | int main()
palind.c:7:31: error: expected ')' before 'printf'
    7 |       if (str[l++] != str[h--]
      |          ~                 ^
      |                            )
    8 |          printf("%s is not a palindrome\n",str);
      |          ~~~~~~
palind.c:12:7: error: expected expression before '}' token
   12 |       }
      |       ^
palind.c: At top level:
palind.c:14:11: error: expected declaration specifiers or '...' before string constant
   14 |    printf("%s is a palindrome\n",str);
      |           ^~~~~~~~~~~~~~~~~~~~~~
```

```
Enter the elements of the array:
2
3
11
15
20
The prime numbers in the array are: 2 3 11
student@ai-HP-ProDesk-600-G4-MT:~/9221421$ gcc palind.c
palind.c: In function 'main':
palind.c:3:16: warning: character constant too long for its type
    3 |    char str[]={'abbba'};
      |               ^~~~~~~
palind.c:3:16: warning: overflow in conversion from 'int' to 'char' changes value from '1650614881' to '97' [-Woverflow]
palind.c:5:10: warning: implicit declaration of function 'strlen' [-Wimplicit-function-declaration]
    5 |    int h=strlen(str)-1;
      |          ^~~~~~
palind.c:5:10: warning: incompatible implicit declaration of built-in function 'strlen'
palind.c:1:1: note: include '<string.h>' or provide a declaration of 'strlen'
  +++ |+#include <string.h>
    1 | int main()
palind.c:7:31: error: expected ')' before 'printf'
    7 |        if (str[l++] != str[h--]
      |            ~                 ^
      |                              )
    8 |           printf("%s is not a palindrome\n",str);
      |           ~~~~~~
palind.c:12:7: error: expected expression before '}' token
   12 |      }
      |      ^
palind.c: At top level:
palind.c:14:11: error: expected declaration specifiers or '...' before string constant
   14 |    printf("%s is a palindrome\n",str);
      |           ^~~~~~~~~~~~~~~~~~~~~~~
palind.c:14:34: error: unknown type name 'str'
   14 |    printf("%s is a palindrome\n",str);
      |                                  ^~~
palind.c:15:4: error: expected identifier or '(' before 'return'
   15 |    return 0;
      |           ^~~~~~
palind.c:16:1: error: expected identifier or '(' before '}' token
   16 | }
      | ^
student@ai-HP-ProDesk-600-G4-MT:~/9221421$
```

Activities   Terminal ▾   Mar 20 16:04

student@ai-HP-ProDesk-600-G4-MT: ~/9221421

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

```
capital1            file4.sh            output1.txt        'Screenshot from 2024-01-10 12-21-40.png'   square.sh
caps                file.txt            output.sh          'Screenshot from 2024-01-10 12-21-48.png'   student_1.sql
depatment.sql       fle.txt            output.txt          'Screenshot from 2024-01-10 12-21-53.png'   student.sql
double.c            hash.c              palind.c           'Screenshot from 2024-01-10 12-22-01.png'   sum.c
employee.sql        html.html          pipes.c             'Screenshot from 2024-01-10 12-22-06.png'   sum_obj.o
fact.c              infixtopostfix.c   prime.c             'Screenshot from 2024-01-10 12-22-13.png'   teacher.sql
student@ai-HP-ProDesk-600-G4-MT:~/9221421$ gcc hash.c
student@ai-HP-ProDesk-600-G4-MT:~/9221421$ ./a.out
hash table after inserting 2,26,19,95,67,13:
Slot 0 : -1
Slot 1 : 67 -1
Slot 2 : 13 2 -1
Slot 3 : -1
Slot 4 : 26 -1
Slot 5 : -1
Slot 6 : -1
Slot 7 : 95 -1
Slot 8 : 19 -1
Slot 9 : -1
Slot 10 : -1

Seaching For 13 : 13 Found!
Seaching For 26 : 26 Found!
Seaching For 19 : 19 Found!

Hash table after deleting 10,95:
Slot 0 : -1
Slot 1 : 67 -1
Slot 2 : 2 -1
Slot 3 : -1
Slot 4 : 26 -1
Slot 5 : -1
Slot 6 : -1
Slot 7 : -1
Slot 8 : 19 -1
Slot 9 : -1
Slot 10 : -1

student@ai-HP-ProDesk-600-G4-MT:~/9221421$ gcc fibanocci.c
student@ai-HP-ProDesk-600-G4-MT:~/9221421$ ./a.out
fibanocci series upto 10:
0112358132134
student@ai-HP-ProDesk-600-G4-MT:~/9221421$
```

student@ai-HP-ProDesk-600-G4-MT: ~/9221421

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

```
palind.c:16:1: error: expected identifier or '(' before '}' token
   16 | }
      | ^
student@ai-HP-ProDesk-600-G4-MT:~/9221421$ ls
9221421.sql      fact_obj.o          list.txt         reserves_table.sql         'Screenshot from 2024-01-10 12-22-15.png'
a.out            factorial.sh        main.c            sailor.sql                 'Screenshot from 2024-01-10 12-22-21.png'
awk.sh           fibonacci.sh        main_obj.o       'Screenshot from 2024-01-10 12-21-04.png'  'Screenshot from 2024-01-10 12-22-28.png'
boat.sql         fibo.sh             num              'Screenshot from 2024-01-10 12-21-15.png'  'Screenshot from 2024-01-19 11-57-42.png'
branch.sql       file3.sh            number           'Screenshot from 2024-01-10 12-21-23.png'  'Screenshot from 2024-01-19 11-58-46.png'
cap              file3.txt           out_numbers.txt  'Screenshot from 2024-01-10 12-21-32.png'  sed.sh
capital1         file4.sh            output1.txt      'Screenshot from 2024-01-10 12-21-40.png'  square.sh
caps             file.txt            output.sh        'Screenshot from 2024-01-10 12-21-48.png'  student_1.sql
depatment.sql    fle.txt             output.txt       'Screenshot from 2024-01-10 12-21-53.png'  student.sql
double.c         hash.c              palind.c         'Screenshot from 2024-01-10 12-22-01.png'  sum.c
employee.sql     html.html          pipes.c          'Screenshot from 2024-01-10 12-22-06.png'  sum_obj.o
fact.c           infixtopostfix.c    prime.c          'Screenshot from 2024-01-10 12-22-13.png'  teacher.sql
student@ai-HP-ProDesk-600-G4-MT:~/9221421$ gcc hash.c
student@ai-HP-ProDesk-600-G4-MT:~/9221421$ ./a.out
hash table after inserting 2,26,19,95,67,13:
Slot 0 : -1
Slot 1 : 67 -1
Slot 2 : 13 2 -1
Slot 3 : -1
Slot 4 : 26 -1
Slot 5 : -1
Slot 6 : -1
Slot 7 : 95 -1
Slot 8 : 19 -1
Slot 9 : -1
Slot 10 : -1

Seaching For 13 : 13 Found!
Seaching For 26 : 26 Found!
Seaching For 19 : 19 Found!

Hash table after deleting 10,95:
Slot 0 : -1
Slot 1 : 67 -1
Slot 2 : 2 -1
Slot 3 : -1
Slot 4 : 26 -1
Slot 5 : -1
Slot 6 : -1
```

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

student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...

```
student@ai-HP-ProDesk-600-G4-MT:~$ ssh student@172.50.13.31
The authenticity of host '172.50.13.31 (172.50.13.31)' can't be established.
ECDSA key fingerprint is SHA256:HinlVM+WbQ1Q4i9ZlOMkHinI6s4Zq/QTeEJTd10XGEU.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.50.13.31' (ECDSA) to the list of known hosts.
student@172.50.13.31's password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.8.0-59-generic x86_64)

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

637 updates can be applied immediately.
496 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 Mar 20 15:01:34 2024 from 172.50.6.155
student@ai-HP-ProDesk-600-G4-MT:~$ ls
01.py                  Client_arp.class     ghjjk.py         haskque3.o       lab9q1_files     RR.py
422111-unix            Client_arp.java      hadoop-3.3.6     haskque4         lab9q1.html      scheduling_1.c
'621209 question 7.py' Clientarp.java       haskque1         haskque4.hi      length.pl        scheduling_2.c
'621209 quesyion8.py'  Clientrarp           haskque10        haskque4.hs      Main.java        seclar.sh
622250                 Clientrarp.class     haskque10.hi     haskque4.o       math.py          Server_arp.class
8_puzzle.py            Clientrarp.java      haskque10.hs     haskque5         max.pl           Serverarp.class
abc.py                 code                 haskque10.o      haskque5.hi      mbn.py           Server_arp.java
add.pl                 conio.h              haskque11        haskque5.hs      merge.pl         Serverarp.java
AI_assign_4.py         containnum.pl        haskque11.hi     haskque5.o       mki.py           Serverrarp.class
AIlab3_Q1.py           crc.class            haskque11.hs     haskque6         modify.pl        Serverrarp.java
anaconda3              crc.java             haskque11.o      haskque6.hi      multithread2.c   sharedmemory.c
a.out                  CRC.py               haskque12        haskque6.hs      multithread3.c   signal.c
append.pl              dbms_lab3_q1.sql     haskque12.hi     haskque6.o       multithread.c    snap
area.py                dbms_lab3_q3.sql     haskque12.hs     haskque7         Music            some.txt
assign_5              Desktop              haskque12.o      haskque7.hi      myproject        son.py
assign_5.hi           dir1                 haskque14        haskque7.hs      names.txt        sos.py
assign_5.hs           director             haskque14.hi     haskque7.o       new              sqlanta.txt
assign_5.o            div.hs               haskque14.hs     haskque8         nth.pl           StartExp1.class
assign_5Q1            Documents            haskque14.o      haskque8.hi      num.txt          StartExp1.java
assign_5Q1.hi         Downloads            haskque15        haskque8.hs      occurence.pl     state.txt
assign_5Q1.hs         DS                   haskque15.hi     haskque8.o       occur.pl         student-421159-
```

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

student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...

```
a.out                CRC.py                     haskque12        haskque6.hs      multithread3.c    signal.c
append.pl            dbms_lab3_q1.sql           haskque12.hi     haskque6.o       multithread.c     snap
area.py              dbms_lab3_q3.sql           haskque12.hs     haskque7         Music             some.txt
assign_5             Desktop                    haskque12.o      haskque7.hi      myproject         son.py
assign_5.hi          dir1                       haskque14        haskque7.hs      names.txt         sos.py
assign_5.hs          director                   haskque14.hi     haskque7.o       new               sqlanta.txt
assign_5.o           div.hs                     haskque14.hs     haskque8         nth.pl            StartExp1.class
assign_5Q1           Documents                  haskque14.o      haskque8.hi      num.txt           StartExp1.java
assign_5Q1.hi        Downloads                  haskque15        haskque8.hs      occurence.pl      state.txt
assign_5Q1.hs        DS                         haskque15.hi     haskque8.o       occur.pl          student-421159-
assign_5Q1.o         eclipse                    haskque15.hs     haskque9         palindrome.sh     student-422111
assign_5Q2           eclipse-workspace          haskque15.o      haskque9.hi      pglfu.c           student-422111-oops
assign_5Q2.hi        encap.pl                   haskque16        haskque9.hs      pgmfu.c           student-422111-os
assign_5Q2.hs        exit.c                     haskque16.hi     haskque9.o       Pictures          sumofsq.sh
assign_5Q2.o         fact1.sh                   haskque16.hs     hello            pipe.c            sum.pl
assign_5Q3           fact.pl                    haskque16.o      hello.pl         pro1              Tdpl_assignment_4.sml
assign_5Q3.hi        fact.powershell            haskque18        hg.py            Public            Templates
assign_5Q3.hs        fact.sh                    haskque18.hi     hi2.txt          __pycache__       threadtdpl.java
assign_5Q3.o         fact.shell                 haskque18.hs     hi3.txt          que1a.a68         TNP_files
assign_5Q4           fghfc.py                   haskque18.o      hi.txt           que1b.a68         UNIX
assign_5Q4.hi        fibonacci.sh               haskque1.hi      hjgf.py          que2b.sml         'Untitled Document 1'
assign_5Q4.hs        fibo.pl                    haskque1.hs      hjybjm.py        que2.sml          'Untitled Folder'
assign_5Q4.o         fifo.c                     haskque1.o       incerlist.pl     que2.smlo         'Untitled Folder 1'
bankersalgo.c        file                       haskque2         infixtopostfix.py que3b.hs         'Untitled Folder 2'
bitstuffing.java     file10.txt                 haskque2.hi      insertnth.pl     quick.pl          Videos
BitStuffing.java     'File System'              haskque2.hs      insertzero.pl    removenth.pl      wait.c
bst22.py             fork.c                     haskque2.o       jhb.py           reverse.pl        week-4q-1.sql
bst234.py            ForwardingTableGenerator.class  haskque3    jhyru.py         'rgtfd .py'       week4-q2.sql
capital.txt          ForwardingTableGenerator.java   haskque3.hi kk.py            rollno.sh         week5-q1.sql
captail.txt          gbnv.py                    haskque3.hs      kl.py            roundrobin.c      while.py
student@ai-HP-ProDesk-600-G4-MT:~$ cd student-422111
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ ls
amstrongnumber.c     deletenodebyitem.c  'doublyll.c\'    findcycle_1.c    inertionsort.c    sumofdigits.c
a.out                deletenode.c        evaluatepostfix.c  hashtable.c    infixtopostfix.c  swapwithouttemp.c
assignment-2-422111  diaplay.c           evenorodd.c      hello.c          insertusingpos.c  swapwithtemp.c
circularll.c         doublyll.c          factorial.c      index.html       selectionsort.c   traverse.c
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ gcc hello.c
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ ./a.out
Hello. world!
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ gcc evenorodd.c
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ ./a.out
enter an integer:10
the number 10 is evenstudent@ai-HP-ProDesk-600-G4-MT:~/student-422111$
```

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

student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...   student@ai-HP-...

```
assign_5Q1.hs        DS                         haskque15.hi     haskque8.o       occur.pl          student-421159-
assign_5Q1.o         eclipse                    haskque15.hs     haskque9         palindrome.sh     student-422111
assign_5Q2           eclipse-workspace          haskque15.o      haskque9.hi      pglfu.c           student-422111-oops
assign_5Q2.hi        encap.pl                   haskque16        haskque9.hs      pgmfu.c           student-422111-os
assign_5Q2.hs        exit.c                     haskque16.hi     haskque9.o       Pictures          sumofsq.sh
assign_5Q2.o         fact1.sh                   haskque16.hs     hello            pipe.c            sum.pl
assign_5Q3           fact.pl                    haskque16.o      hello.pl         pro1              Tdpl_assignment_4.sml
assign_5Q3.hi        fact.powershell            haskque18        hg.py            Public            Templates
assign_5Q3.hs        fact.sh                    haskque18.hi     hi2.txt          __pycache__       threadtdpl.java
assign_5Q3.o         fact.shell                 haskque18.hs     hi3.txt          que1a.a68         TNP_files
assign_5Q4           fghfc.py                   haskque18.o      hi.txt           que1b.a68         UNIX
assign_5Q4.hi        fibonacci.sh               haskque1.hi      hjgf.py          que2b.sml         'Untitled Document 1'
assign_5Q4.hs        fibo.pl                    haskque1.hs      hjybjm.py        que2.sml          'Untitled Folder'
assign_5Q4.o         fifo.c                     haskque1.o       incerlist.pl     que2.smlo         'Untitled Folder 1'
bankersalgo.c        file                       haskque2         infixtopostfix.py que3b.hs         'Untitled Folder 2'
bitstuffing.java     file10.txt                 haskque2.hi      insertnth.pl     quick.pl          Videos
BitStuffing.java     'File System'              haskque2.hs      insertzero.pl    removenth.pl      wait.c
bst22.py             fork.c                     haskque2.o       jhb.py           reverse.pl        week-4q-1.sql
bst234.py            ForwardingTableGenerator.class  haskque3    jhyru.py         'rgtfd .py'       week4-q2.sql
capital.txt          ForwardingTableGenerator.java   haskque3.hi kk.py            rollno.sh         week5-q1.sql
captail.txt          gbnv.py                    haskque3.hs      kl.py            roundrobin.c      while.py
student@ai-HP-ProDesk-600-G4-MT:~$ cd student-422111
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ ls
amstrongnumber.c     deletenodebyitem.c  'doublyll.c\'    findcycle_1.c    inertionsort.c    sumofdigits.c
a.out                deletenode.c        evaluatepostfix.c  hashtable.c    infixtopostfix.c  swapwithouttemp.c
assignment-2-422111  diaplay.c           evenorodd.c      hello.c          insertusingpos.c  swapwithtemp.c
circularll.c         doublyll.c          factorial.c      index.html       selectionsort.c   traverse.c
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ gcc hello.c
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ ./a.out
Hello. world!
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ gcc evenorodd.c
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ ./a.out
enter an integer:10
the number 10 is evenstudent@ai-HP-ProDesk-600-G4-MT:~/student-422111$ gcc amstrongnumber.c
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$ ./a.out
2
4
6
7
32
45
753
student@ai-HP-ProDesk-600-G4-MT:~/student-422111$
```

2. Create a project under CVS/git repository and record multiple versions/branchesand practice merging of branches (with a batch of 2 members) using gitbash commands and upload all your previous lab tasks to this repository .

Code:

```
     create mode 100644 Assignment3/unix.jpg
     create mode 100644 Assignment4/UNIX ASSIGNMENT4.pdf
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ git push origin branch422148
Username for 'https://github.com': ^C
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ git remote -v
origin  https://github.com/G-JOSHUA-STEPHEN/UNIX.git (fetch)
origin  https://github.com/G-JOSHUA-STEPHEN/UNIX.git (push)
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ git remote set-url https://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@github.com/G-JOSHUA-STEPHEN/UNIX
.git/
usage: git remote set-url [--push] <name> <newurl> [<oldurl>]
   or: git remote set-url --add <name> <newurl>
   or: git remote set-url --delete <name> <url>

   --push           manipulate push URLs
   --add            add URL
   --delete         delete URLs

student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ git remote set-url origin https://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@github.com/G-JOSHUA-STEPH
EN/UNIX.git/
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ git push origin branch422148
Enumerating objects: 17, done.
Counting objects: 100% (17/17), done.
Delta compression using up to 12 threads
Compressing objects: 100% (16/16), done.
Writing objects: 100% (17/17), 1.28 MiB | 541.00 KiB/s, done.
Total 17 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/G-JOSHUA-STEPHEN/UNIX.git/
 * [new branch]      branch422148 -> branch422148
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ git add .
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ git commit -m "Added 422148 Assignment1"
[branch422148 6720056] Added 422148 Assignment1
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 First422180.pdf
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ git push origin branch422148
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 406.43 KiB | 25.40 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/G-JOSHUA-STEPHEN/UNIX.git/
   e9c3c87..6720056  branch422148 -> branch422148
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ ▢
```