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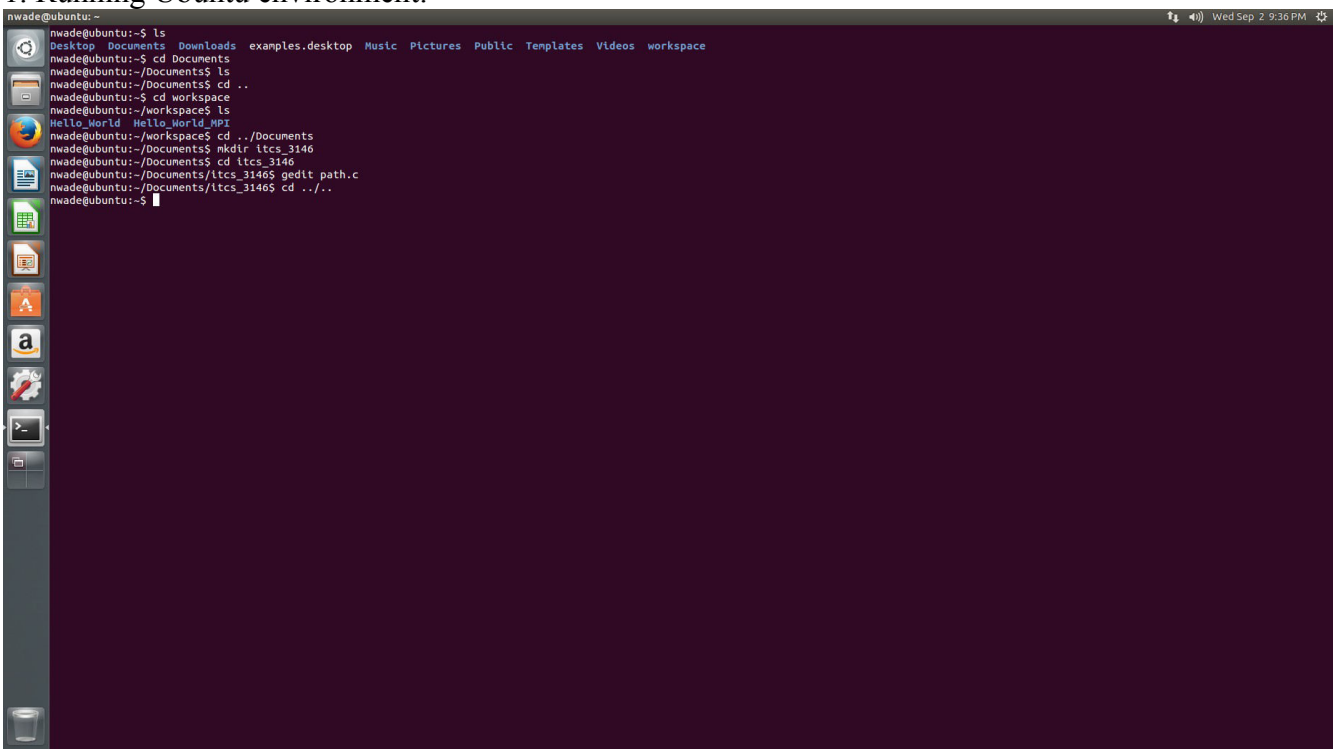
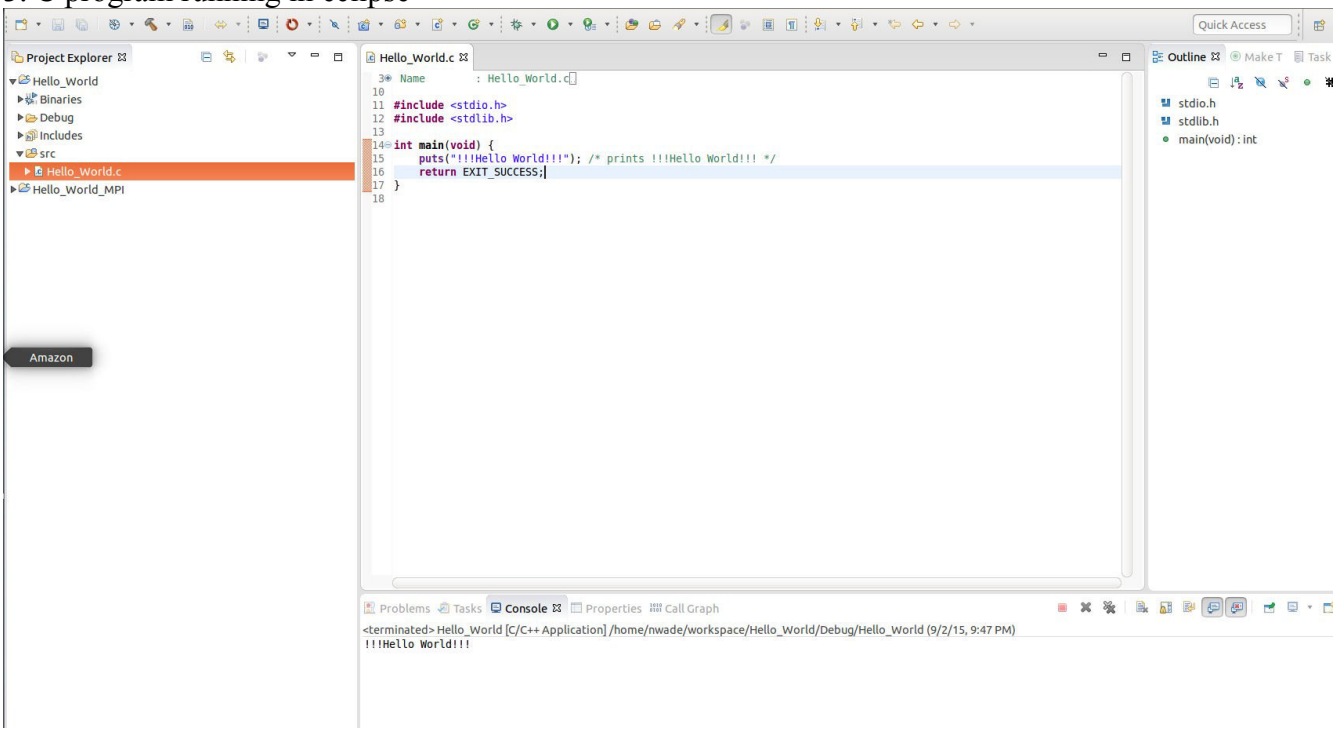
ITCS 4145
Undergraduate

1. Running Ubuntu environment:



2. Running sample C program through terminal

3. C program running in eclipse



4. Dynamically allocated memory

```
nwade@ubuntu:~/Documents/itcs_4145$ ./task_3
Enter a size: 200

        0       1       2       3       4       5       6       7       8       9
        10      11      12      13      14      15      16      17      18      19
        20      21      22      23      24      25      26      27      28      29
        30      31      32      33      34      35      36      37      38      39
        40      41      42      43      44      45      46      47      48      49
        50      51      52      53      54      55      56      57      58      59
        60      61      62      63      64      65      66      67      68      69
        70      71      72      73      74      75      76      77      78      79
        80      81      82      83      84      85      86      87      88      89
        90      91      92      93      94      95      96      97      98      99
        100     101     102     103     104     105     106     107     108     109
        110     111     112     113     114     115     116     117     118     119
        120     121     122     123     124     125     126     127     128     129
        130     131     132     133     134     135     136     137     138     139
        140     141     142     143     144     145     146     147     148     149
        150     151     152     153     154     155     156     157     158     159
        160     161     162     163     164     165     166     167     168     169
        170     171     172     173     174     175     176     177     178     179
        180     181     182     183     184     185     186     187     188     189
        190     191     192     193     194     195     196     197     198     199
nwade@ubuntu:~/Documents/itcs_4145$
```

5. Connect to server through ssh

```
You need to change your password.

For the first password prompt, remember to enter "changeme" without quotes.

Changing password for user nwade3.
Enter login(LDAP) password:
New password:
Retype new password:
LDAP password information changed for nwade3
passwd: all authentication tokens updated successfully.

We need to set up some things so you can SSH between
nodes securely from your account.

Generating public/private rsa key pair.
Your identification has been saved in /nfs-home/nwade3/.ssh/id_rsa.
Your public key has been saved in /nfs-home/nwade3/.ssh/id_rsa.pub.
The key fingerprint is:
02:d4:41:f9:ff:5a:ed:1a:e0:37:a7:b9:82:67:5b:9b nwade3@cci-gridgw.uncc.edu
The key's randomart image is:
+--[ RSA 2048]----+
|    .ooo         |
|   .  o          |
|      .  .       |
|       . S..     |
|        . ... .  |
|          ...* o |
|         . ++.X  |
|          oo+Eo. |
+-----------------+

All done!

You should now be able to run the following commands
to connect to the other three nodes:

ssh cci-grid05
ssh cci-grid07
ssh cci-grid08

Enjoy!
```

6. Create and run hello.c on server

```
[nwade3@cci-gridgw ~]$ vim hello.c
[nwade3@cci-gridgw ~]$ gcc hello.c -o hello
[nwade3@cci-gridgw ~]$ ./hello
Hello World![nwade3@cci-gridgw ~]$
```