Handout 1: Getting Started with the CIS Server and C

1. Connect to the CS Server:
   - Create your CS account: https://systems.cs.uoregon.edu/apps/newuser.php
   - Connect to the unix CS server using ssh (Secure Socket Shell)
     - Windows → Download PuTTY: http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html
       In Host Name type ix.cs.uoregon.edu
       A box will open, say yes
       A terminal will open, enter your log in information
     - Linux/Mac → ssh from the Terminal
       $ ssh username@ix.cs.uoregon.edu
       (yes/no)? yes
       password: Enter your CS account password

2. Create a directory HelloWorld inside your Documents folder

   Unix Basics:
   a. ls → list all files/directories in your current directory
   b. mkdir dir_name → make a new directory dir_name in your current directory
   c. cd dir_name → change the current directory to dir_name
   d. cd .. → go back one step to parent directory

3. Use vi editor to create hello.c file:
   a. $ vi hello.c
   b. Press key <i> to enter insert mode
   c. Write your hello.c file:

      #include <stdio.h>

      int main(void) {
          printf(“Hello World!\n”);
          return 0;
      }

   d. Use <esc> key to switch to command mode
   e. In command mode you can use commands:
      i. :w <Return> → save/write modified file
      ii. :q <Return> → quit with options
iii. :wq <Return> → save and quit
iv. :q! <Return> → quit without saving

4. Compile hello.c:
   a. $ gcc -o myhello HelloWorld.c

5. Run your executable file: myhello
   a. $ ./myhello