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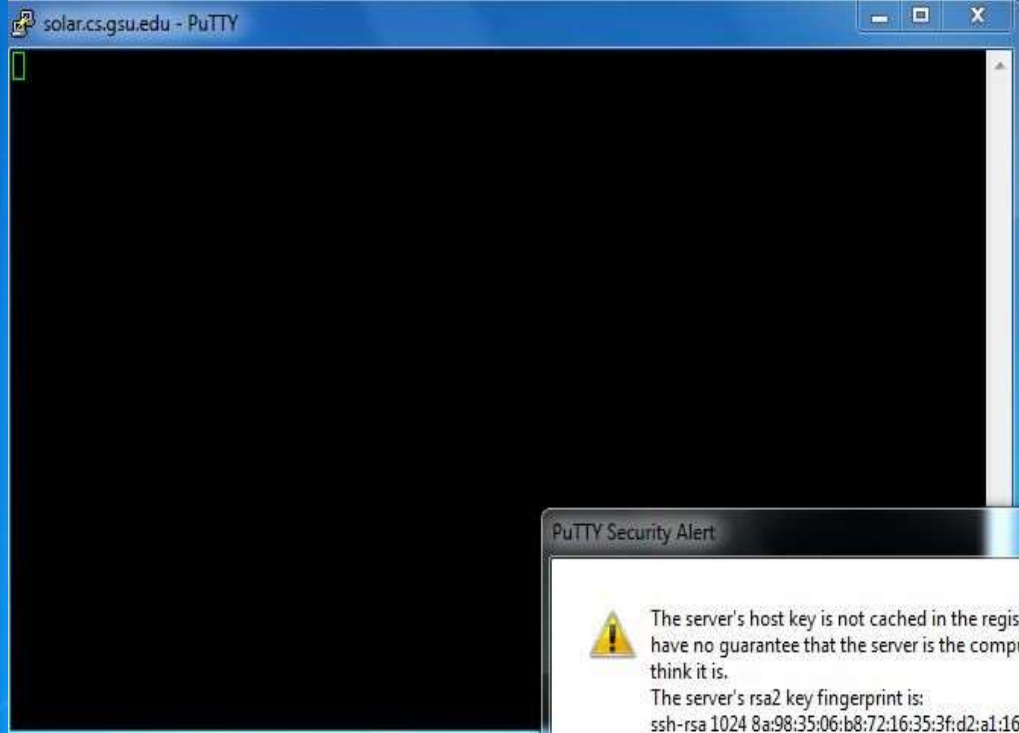
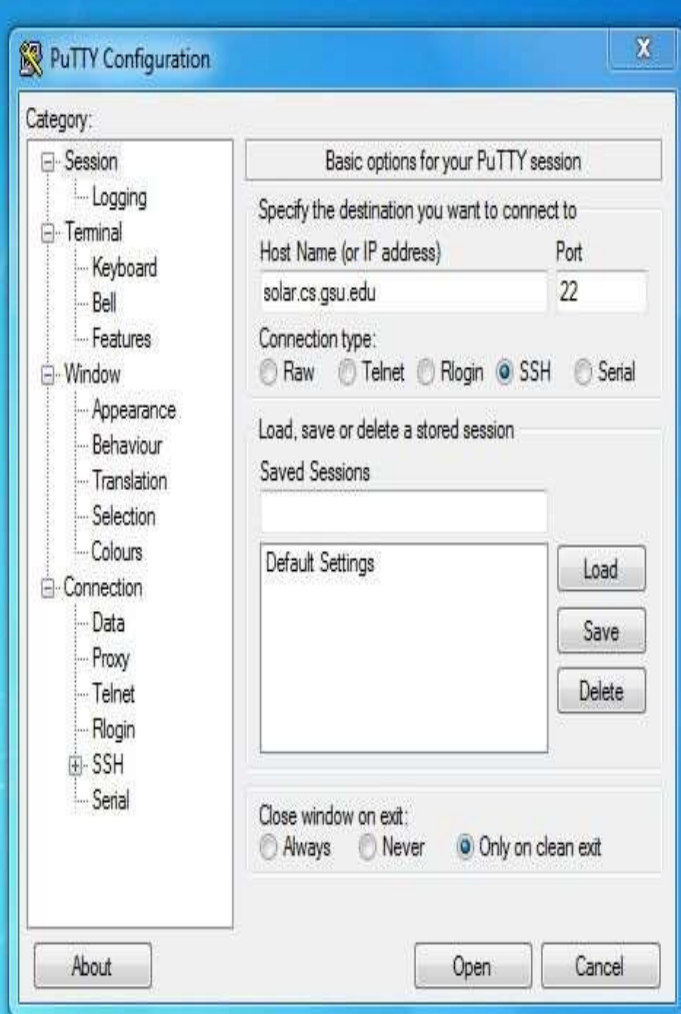
# How to install putty

Putty is for Windows Users

Linux & Mac Users can use “Terminal”

download putty from “[here](#)”

Putty is a ready to run software, no need to install it.



# MAC users

Use Following Command to Login to Solar Server

cmd: (highlighted in red)

**ssh b321001@solar.cs.gsu.edu**

*The authenticity of host 'solar.cs.gsu.edu (131.96.155.206)' can't be established.*

*RSA key fingerprint is SHA256:jiwjLldvqlM4p1YqKxWBcQ4FQ3xW2TS1VQ22IzIV/GQ.*

*Are you sure you want to continue connecting (yes/no)?* **yes**

*Warning: Permanently added 'solar.cs.gsu.edu,131.96.155.206' (RSA) to the list of known hosts.*

*Password:*    **← Enter Password Here (It won't display password as you type)**

*Access denied*

*Access denied*

*Last login: Thu Jan 14 16:20:33 2016 from ist-alc306-01.d*

*Oracle Corporation    SunOS 5.10    Generic Patch    January    2005*

*mail: Invalid permissions on /var/mail//b321001*

**[2312][b321001@solar:~]\$**

# Basic Unix commands

- `passwd`: To Change your password on Unix server, This prompt request new password
- `mkdir foldername` : Create a directory with name “foldername”
- `cd foldername` : Change Directory to next folder with name “foldername”
- `ls` : List all the files in present working directory
- `cd ..` : Change directory to Parent
- `cat “Filename”` : Display contents of the file “Filename”

# Assembly Code

- No IDE for Assembly code.
- This needs to be written in plain text file
- Can use Unix Editors

nano or vim

cmd: vim filename.s or nano filename.s

# Compilation

GCC → GNU Compiler Collection

→ This is used to compile Programs like C, Assembly Code.

→ This helps in converting C files to Assembly Lines

CMD: `gcc -S file.c` (Generated file.s)

→ To compile assembly Code

CMD: `gcc -o filefile.s`

*Note: Only Assign 1 should be written in C and convert to Assembly Code. Rest all should be directly written in assembly language*

# Submit

→ Redirect the output of the code to a file say “Output.txt”

CMD: ./file > Output.txt (to Copy output to file Output.txt)

./file >> Output.txt (To append output to the file Output.txt)

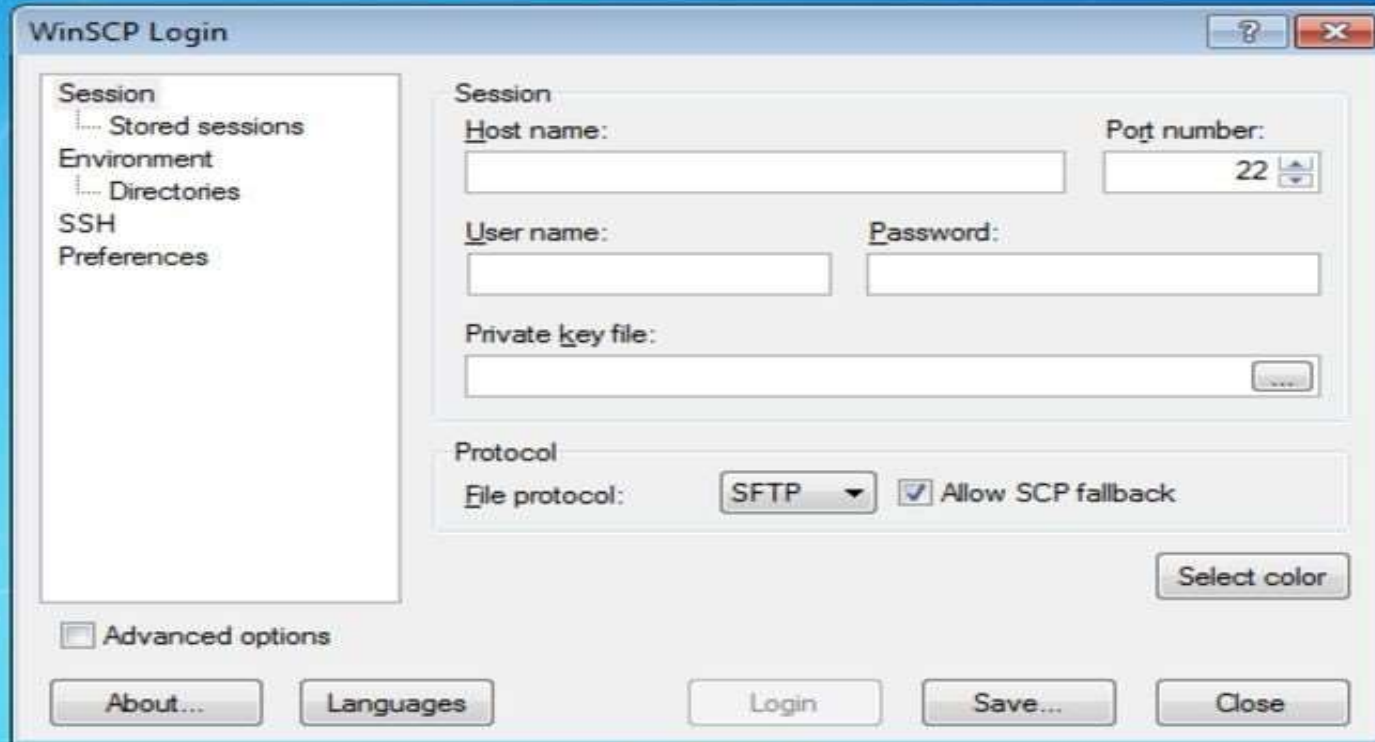
→ Copy Output.txt & file.s to Local Server (using scp or winscp)

→ Copy these 2 files to D2L in respective HW dropbox

→ Download winscp from [here](#).



# Winscp Usage



The image shows the WinSCP Login dialog box. It has a title bar with a question mark and a close button. On the left is a sidebar with a tree view containing 'Session' (selected), 'Stored sessions', 'Environment', 'Directories', 'SSH', and 'Preferences'. The main area is divided into sections: 'Session' with fields for 'Host name:', 'Port number:' (set to 22), 'User name:', 'Password:', and 'Private key file:'. Below this is a 'Protocol' section with 'File protocol:' set to 'SFTP' and a checked 'Allow SCP fallback' checkbox. A 'Select color' button is at the bottom right of the main area. At the bottom of the dialog are buttons for 'About...', 'Languages', 'Login', 'Save...', and 'Close'. An 'Advanced options' checkbox is located above the 'About...' button.

WinSCP Login

Session

- Stored sessions
- Environment
- Directories
- SSH
- Preferences

Session

Host name: Port number: 22

User name: Password:

Private key file:

Protocol

File protocol: SFTP ☒ Allow SCP fallback

Select color

☐ Advanced options

About... Languages Login Save... Close

# MAC/Unix Users use FileZilla

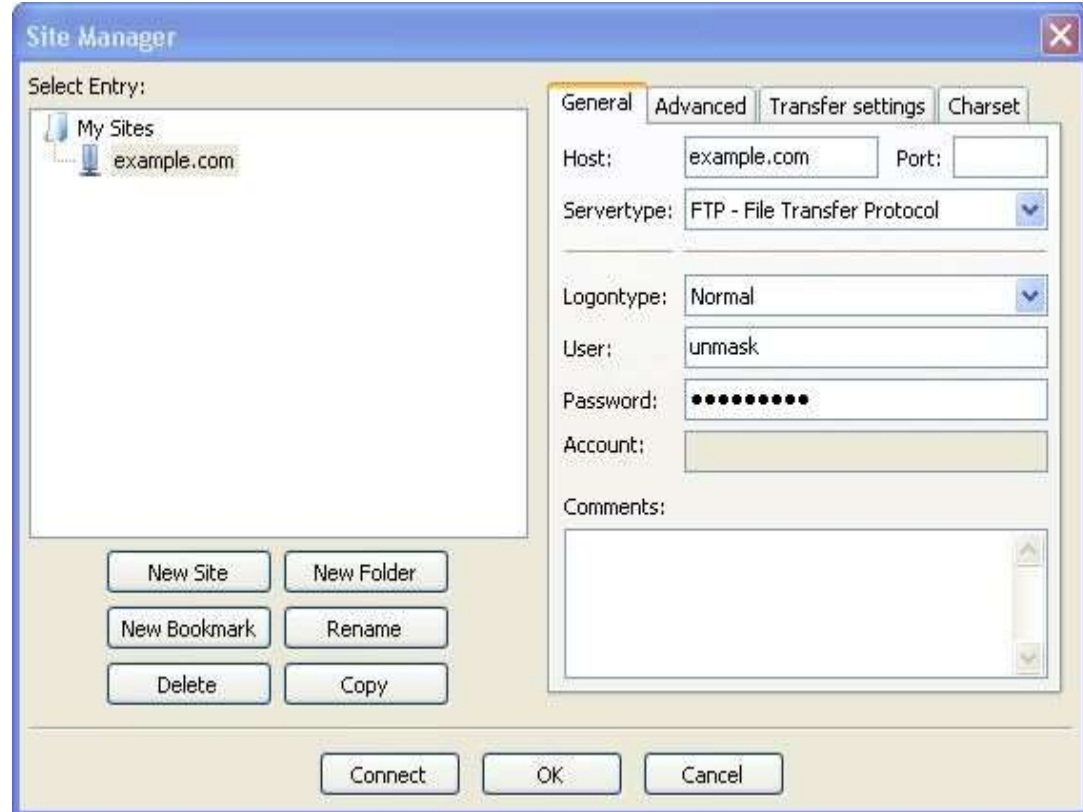
Download FileZilla from “[here](#)”

It will show beside one

In Host: “solar.cs.gsu.edu”

User: “Your username”

Password : “your password”



# Order of Execution for Exercise 1

→ Login to Solar Server

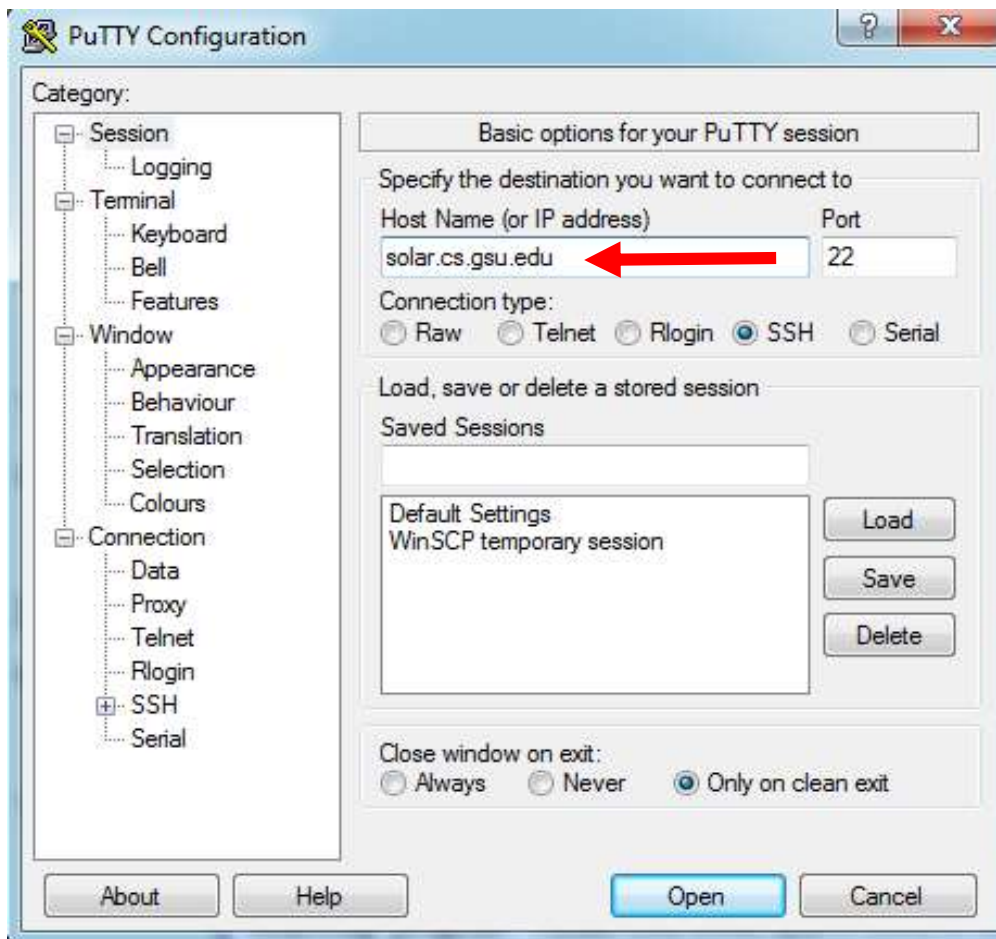
→ `nano test.c` ← Paste the Code present in Assgn 1 pdf file

→ `gcc -S test.c` (This will generate `test.s`)

→ `gcc -o test test.s` (This will generate test object file)

→ `./test > Output.txt`

→ Copy `Output.txt` & `test.s` to local machine (using `winscp` or `filezilla`) and then  
upload to D2L



solar.cs.gsu.edu - PuTTY

login as: b321055

Using keyboard-interactive authentication.

Password:

Using keyboard-interactive authentication.

Access denied

Using keyboard-interactive authentication.

Access denied

Last login: Sun Jan 24 16:16:09 2016 from 4.15.182.203

Oracle Corporation

SunOS 5.10

Generic Patch

January 2005

[2222][b321055@solar:~]\$