**Linux Assignment**

**Due:**

**Total Points (50)**

**Basic file/directory operations** (20 points)

1. Enter cd ~. Using the picture below, create two subdirectories named india and China—note China starts with a capital letter and india does not.
2. Under india and China, create three more subdirectories each – clothing, food, and sports.
3. Use the Internet and lookup a few facts about clothing in India. Use the editor to create a file and write what you found in the editor. Save the file. Did you create it in the correct subdirectory? If not, move the file to the clothing subdirectory under india.
4. In the correct subdirectory, use the editor to create a file and write about your favorite Indian food. Save the file. Make sure it is in the correct subdirectory!
5. Use the Internet to lookup a few facts about sports in China. In the Sports subdirectory under india, use the editor to create a file that describes what you found about sports in China. Yes, this is the incorrect place, but it gives you a chance to practice moving in the next step!
6. Move the file you just created from the sports subdirectory under india to the sports subdirectory under china.
7. Copy the file from the clothing subdirectory under india to the clothing subdirectory under china.
8. Copy the file from the food subdirectory under india to the food subdirectory under China. Edit the new file to reflect your favorite meal that could be cooked in China.
9. Delete the subdirectory clothing under india.
10. Type tree and press enter and then show your work to an instructor.

**Basic Linux scripting** (30 points)

I. Guessing Game

 Write a script that asks for your age. If the number entered is your age, the message should say, “Good guess.” If the number is not your age, the message should say “Incorrect guess, the age is xx” where xx is the correct age. Run the script two times – once with the correct age and once without. Copy the results into a Word document.

II. State Code Script

Write a script that accepts a state code (two character code) and checks to see if it is Arkansas (AR) or Texas (TX). If it is either of these then a message should be returned that a valid code has been entered. If the state code does not equal one of these two codes, an error should be displayed indicating that an invalid state code was entered.

Save the script as statecode. Run the script three times – once with AR, once with TX and once with MS. Copy the results into a Word document.

III. Copying with a script

Create a new subdirectory named Russia.

Create a new subdirectory under Russia named Food.

Write a script to copy the file in your Food subdirectory under China to the new food subdirectory under Russia.

Include an if statement to let you know if the copy was made successfully. Copy the results into a Word document.

IV. Removing a subdirectory with a script

Write a script to remove the subdirectory named China. Include an if statement to let you know if the subdirectory was successfully removed. Copy the results into a Word document.

Run the tree command.

Copy the results into a Word document.

V. Copy the proflossbe script to lossbeprof. Edit the new file and change the script to check for the Loss first, then the breakeven, and then the profit.

Run the script three times with the scenarios provided above.

VI. Create a script to read salesperson and quarterly sales from the keyboard.

Display an appropriate message regarding the bonus when the quarterly sales for a salesperson fall within these ranges (Be careful!!):

Over $1000000 $1500 Bonus

$100000 to $1000000 $750 Bonus

Under $100000 No Bonus

Run the script. Input Brandy for the Salesperson and 99000 when prompted for sales.

Run the script. Input Terry for the Salesperson and 1000001 when prompted for sales.

Run the script. Input Carroll for the Salesperson and 100000 when prompted for sales.

Run other tests as you see necessary!

Print the Word document and submit the assignment. Make sure your name is in or on the Word document.