Embedded Linux

1. Write a menu based program to a) list all the files in a directory b) to print the word count of a file c) to check whether the machine supports hardware supported virtualization d) to find the username from the /etc/passwd file.
2. Write a shell script to find the area of a triangle.
3. Write a shell script to check and display the softlink files in a directory.
4. Write a shell script to change the cntlm.conf file to set the username,password,servername and proxy.
5. Implement the above problem using dialog utility.
6. Using dialog, set the IP of your machine.
7. List all the files with only read and write permissions.
8. Find which drive has the maximum space used.
9. Write a shell script to find the checksum of an Intel HEX code for 8051.[Ref.Mazidi book for 8051 for intel hex code]
10. Write a shell script to create a) tar b) bz2 c) zip d) tar.gz.Pass the directory as CLA.
11. Extend the above problem to uncompressing the above create files.
12. Write a shell script to implement tower of Hanoi problem.
13. Write a shell script to print WELCOME TO $USERNAME @ $HOSTNAME whenever a new terminal application is opened.
14. Write a shell script to print a triangle of numbers using nested for loop.
15. Write a shell script to print the a) word count b) total number of characters in a file
16. Write a shell script to check whether two file are same.
17. Write a shell script to check whether a given number is a palindrome or not.
18. Write a shell script to check whether a given five digit number is a palindrome or not.
19. Write a shell script using function for finding factorial of a number.
20. Extend the above problem for finding the factorial of an array of numbers.
21. Write a shell script to check whether the server is on. If the server is on, copy a file to the server and also download a file from the server. Also check the MAC address of the server.