Mini Project

1. Create a shell script which creates a list of all broken symbolic links on the system and print it.

2. Create a script which compresses all files individually in a given directory and all its subdirectories using gzip. This is handy for saving space on a system where files containing documentation for programs installed on the system can be compressed. Try compressing all html, txt and pdf files in /usr/share/doc and its subdirectories using this script.

3. Usually on working on projects Makefiles contain debugging options in the variable CFLAGS to aid in debugging during development. Write a script for aiding you in removing these debugging options from the CFLAGS variable automatically for you after development is complete and adding optimizing options in their place.

4. Write a shell script that creates a list of all mp3 files on a file system containing complete path names of these. This file can be used as a play-list for media players on Linux. Enhance the script to invoke your favorite media player (mplayer, xmms etc.) with this play-list.

5. There is a wget program to automatically download complete websites for viewing the websites offline later. Create a shell script which uses wget to download a given website automatically for you in a given directory for later viewing. After the website has been downloaded have the script tar and gzip the website in a separate file.

6. Write a script that adds a directory to the system path variable.

7. Write a script that copies a list of files from one directory to the other. During copying the script should make the following changes to the files: capitalize the first letter of the filename and lowercase all other letters. Change the owner of the files to a given owner and change the permissions to a given set of permissions.

8. Write a script to convert DOS CR/LF files to UNIX files in which lines end in LF.