

# SOFTWARE LAB

## ASSIGNMENT 5

### SHELL SCRIPTING

## 1 Basic Reading Material

link: <http://tldp.org/HOWTO/Bash-Prog-Intro-HOWTO.html>

## 2 Advanced reading Material

link : [sage.math.washington.edu/home/wstein/.../shell\\_sed.../shell\\_sed\\_awk.pdf](http://sage.math.washington.edu/home/wstein/.../shell_sed.../shell_sed_awk.pdf)

Book :Advanced BashScripting Guide by Mendel Cooper.

## 3 PROBLEM STATEMENT

### •PROBLEM 1:(compulsory 100 marks)

The inputs are name of the folder to be opened and the extension type of the files and these are to be passed through commandline.

sh <scriptname><foldername><extension type>

Open the user given folder and search for the subfolders with names having only small letters and without spaces.

In these subfolders, write the names of files that have the user given extension into “match.txt” in the following format.

<subfolder matching pattern>

<Files in that subfolder matching extension >

<next subfolder matching pattern>...and so on.

If the given extension is a c or sh, execute the files.

## 4 OPTIONAL PROBLEMS

### •PROBLEM 2:(Difficulty level:\*\* :bonus 5 marks)

Convert all the capital letters to small case and remove blank spaces in the names of all the subfolders of the given folder.

### •PROBLEM 3:(Difficulty level:\*\*\* :bonus 5 marks)

convert gif files into png in the subfolders which match pattern when the extension type is given gif.

## 5 Submission Instructions

Upload on Sakai before 1715 hours of 4/2/2014.