ASSIGNMENT – 3 (PAPER STUDY)

You need to study the paper assigned to you and present your understanding of the problem and the algorithms in the paper. Please give a written submission by 15 April 2016

1) (15MCMT29, 15MCMT05) Distributed sorting algorithm
http://groups.csail.mit.edu/tds/papers/Zaks/TM-261.pdf (p7 - p15)

2) (15MCMT17, 15MCMT36) Approximation algorithm for graph coloring
http://www.cs.cmu.edu/~avrim/Papers/coloring_worstcase.pdf (upto p10)

3)(15MCMI17M 15MCMB18) MaxCUT : Randomized and Approximation algorithms
courses.csail.mit.edu/6.891-s00/lecture4.ps

4. (15MCMB21, 15MCMI1) A Randomized 3-Colouring algorithm – Petford and Welsh
www.sciencedirect.com/science/article/pii/0012365X89902148

5) (14MCMC01, 14MCMC59) Kishore kothapalli o(logn) bit rounds (upto Section 3)
http://www14.in.tum.de/personen/scheideler/papers/coloring.pdf

6 (15MCMB12, 15MCMI26) Approxmiation algorithms for colouring
http://www.cs.cmu.edu/~anupamg/adv-approx/lecture15.pdf

7) (15MCMT19, 15MCMI22) Max-Coloring and Online Coloring with Bandwidths on Interval Graphs
http://people.mpi-inf.mpg.de/~rraman/papers/maxcoloring.pdf (upto p10)

8) (15MCMB01, 15MCMI02) Randomized algorithm
http://math.mit.edu/~goemans/notes-random.pdf (upto p.10)

9) (15MCMT40, 15MCMT04) FPTAS for knapsack and Load balancing
http://www.cs.princeton.edu/~wayne/cs423/lectures/approx-alg-4up.pdf

10) (15MCMI14, 15MCMT10) Online scheduling
http://www14.in.tum.de/personen/albers/papers/sched_chapter.pdf (upto p.10)