Foundation of Computer Science(CS60001)
Tutorial-05

September 9, 2010

1. Construction of (singly infinite, single tape) Turing Machines :
   (a) $a^n\ b^m\ c^p$ (Where $n > m > p$)
   (b) Design a *Doubling Machine* i.e input is n number of 1's followed by blank (⊔) symbols and output is 2n number of 1's followed by (⊔) symbols.
   (c) Design a TM for Block copying i.e if i/p tape : A 1110.....B 1101110 ⊔ ⊔ ⊔..., then o/p tape : A 1110.....B 11101101110 ⊔ ⊔ ⊔...