Lecture - 4 Taken number: RetS4v Report:The decture started with brief information regarding paper presentation and project details where we got to know about the deadlines for paper presentation and project submission. We got to know various journals and websites to refer for selecting the topics. After that we studied and modified the Hoefding's Bound & East (g) = Eis (g) + (2N deg 2141) 4> For a firste Our good is to reduce this term which can be achieved by either increasing data samples are by reducing Hypothesis set. JN >> log H then East (g) ~ Lin (g). we should try to get Ein(g) & O, which can be achieved by chaosing hypothesis in the best optimal way. Then we sow few examples of noise and the risk factor