**Assignment on BAM**

1.) A Bidirectional Associative Memory(BAM) is required to store the following M =4 pairs of patterns:

Set A: X1 =[1 1 1 1 1 1 ]T, X2 =[-1 -1 -1 -1 -1 -1 ]T, X3 =[1 -1 -1 1 1 1 ]T, X4 =[1 1 -1 -1 -1 -1 ]T

Set B: Y1=[1 1 1]T, Y2=[-1 -1 -1]T, Y3=[-1 1 1]T, Y4=[1 -1 1]T

Using BAM algorithm, train a W matrix for BAM which can retrieve all the above mentioned 4 pairs.

Hence test the level of weight corrections of the BAM with examples.

2.)Read the attached research paper on BAM and make your critical comments within one page. ( This assignment is compulsory for all M.Tech students. For B.Tech students it is optional. However, submitting this assignment will earn 10 bonus points)