Tutorial –IV
Huffman Coding

Presentation by:

Joe Louis Paul I

Problem No: 1

- Consider a DMS with seven possible symbols x_i, i=1,2,………,7 and the corresponding probabilities $p_1=0.37$, $p_2=0.33$, $p_3=0.16$, $p_4=0.07$, $p_5=0.04$, $p_6=0.02$, and $p_7=0.01$. Construct the Huffman coding tree. And determine the following:
    i.   Average codeword length
    ii. Entropy of the source
    iii. Coding efficiency
    iv. How much average codeword length exceeds entropy?