**Expt No. 02**

**Name of Experiment: *Write program to implement Shannon-Fano coding algorithm.***

**Prelab:**

1. What is data compression? Distinguish between lossless and lossy data compression techniques.
2. Write down the algorithm/steps involved in the Shannon Fano encoding algorith.
3. Find the shannon fano code for the symbol set X={A, B, C, D, E} with probability mass function P(X)={0.27, 0.28, 0.15, 0.3, 0.05}