Assignment 1

- a) Describe the characteristics of algorithm with an example.
- b) Differentiate between Bigoh and omega notation with example.
- c) Compare time complexity with space complexity with suitable example?
- d) Write the pseudo code for expressing algorithms with suitable example.
- e) What are the Asymptotic notations? Define all the notation with suitable diagram.
- f) Define all the cases of Master Theorem and Solve the recurrence relation $T(n)=7T(n/2)+n^2$.
- g) Solve the recurrence relation using substitution Method T(n)=1 (if n=1)

T(n) = T(n-1) + log n (if n>1)