

# **ASYMPTOTIC NOTATION**

The word 'Asymptote' means a line that approaches the curve of the polynomial approximately.

*Asymptotic Notation finds the upper bound of the polynomial as in the case of 'Big Oh (O)' notation or the lower bound as in the case of 'ω' small omega notation or containment as in the case of 'θ' (Theta) notation.*

*A program in computer can be assumed as a Function ( $F(n)$ ) which have rate of growth to a constant time or infinite runtime .*

*Asymptotic notation helps to find the functions complexity through analyzing. It helps in optimization.*