## 1. Introduction.

The word 'Continuous' means without any break or gap. If the graph of a function has no break, or gap or jump, then it is said to be continuous.

A function which is not continuous is called a discontinuous function.
While studying graphs of functions, we see that graphs of functions $\sin x, x, \cos x, e^{x}$ etc. are continuous but greatest integer function $[x]$ has break at every integral point, so it is not continuous. Similarly $\tan x, \cot x, \sec x, \frac{1}{x}$ etc. are also discontinuous function.


