**Empirical Analysis**

**1.**Linear Probing

Linear Probing is shown in three formats.By filling entire table,by filling half table,by copying array partly from smaller array.

Best performance is achieved when array size is double the number of input values.Breakeven point as calculated from Graph is at Load Factor of around 0.6

**2** Quadratic Probing

Best performance is achieved when array size is double the number of input values.Worst Performance is when the array is tried to fill completely.Breakeven point as calculated from Graph is at Load Factor of around 0.7.After the Break even point performance of this probing degrades substantially when compared to Linear and double Hashing.

**3** Double Hashing

This technique has best performance overall.Break even point is achieved at load factor of around 8 as calculated from graph

The break even point is calculated using variance .

v = (x-mean)^2