**Moore’s Law-**

Moore’s Law states that number of transistors on a microchip doubles every two years. This was described by Gordon Moors in 1965.

**Limitations of Moore’s Law-**

In order to fit more transistors, they need to be made smaller. Making transistor smaller than 100nm has challenges.

Dennard scaling came to end in 2005-2010 due to leakage current. So even though power consumption remained same, more transistors cannot be utilized due to leakage current.

**Power consumption and heat generation**- these hurdles stop the progress towards faster and smaller transistors.

Hence frequency or clock cycles remain more or less same since 2005.