# **QUESTION # 1**

**What is Superscalar Architecture? Why Superscalar Processors can be added up to current processors in market now a days.**

**Superscalar architecture:**

Superscalar architecture is a type of microprocessor design and construction that makes it possible for a processor to work on multiple sets of instructions at the same time by sending them through separate execution units. Each unit can still only handle one set of instructions in order at a time, however it is possible to have multiple units run concurrently.

Superscalar architecture requires the use of a built-in scheduler that looks through the instruction queue and identifies groups and sets of instructions that don’t conflict with one another.