

1) The two modes of operations that the OS provides are:

i) Superior / Privileged mode

ii) User mode

2) They are instructions that can be executed only by the OS in a specific mode, usually in machine code.

Examples include input/output and memory management.

3) System SW are softwares designed to provide a platform for other SW.

eg: game engine, windows media player, etc.

These SW consists of programs written in low level languages, used to interact with the hardware at very basic level.

4) Syngen is a process of creating a particular unique instance of an OS by combining user specified options and parameters with manufacturer supplied general purpose program code to produce an OS tailored for a particular h/w and s/w environment.