

# PRINCIPLES OF PROGRAMMING LANGUAGES

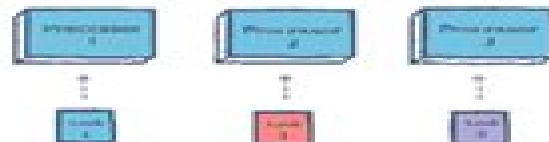
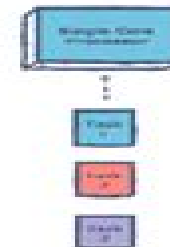
## UNIT-4

### Concurrent Programming

Concurrency generally refers to *events or circumstances that are happening or existing at the same time*.

In programming terms, **concurrent programming** is a technique in which two or more processes start, run in an *interleaved fashion* through **context switching** and complete in an overlapping time period by managing access to *shared resources* e.g. on a single core of CPU.

This doesn't necessarily mean that multiple processes will be running at the **same instant** – even if the results might make it seem like it.

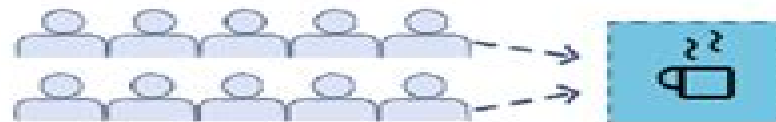


### **Difference between Concurrent & Parallel programming**

In *parallel programming*, parallel processing is achieved through hardware parallelism e.g. executing two processes on two separate CPU cores simultaneously.

### **A Real World Example**

**Concurrent:** *Two Queues & a Single Espresso machine.*



# Principles Of Concurrent Programming

**Clemens Wendtner**



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