

## Concurrency in Go - CONCURRENCY BASICS - Assignment Week #2

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### RACE CONDITION DEFINITION:

A **RACE CONDITION** (a.k.a **RACE HAZARD**) in software systems is ***the condition where the system's substantive behavior is dependent on the sequence or timing of interleaving actions.***

Race conditions arise in software when an application depends on the sequence or timing of processes or threads for it to operate properly:

- Interleaving is non-deterministic, consequently the outcome depends on non-deterministic ordering.
- Races occur due to communication (access to shared data/variables) among concurrently running threads