

# Real-Time Operating System

COURSE PROJECT

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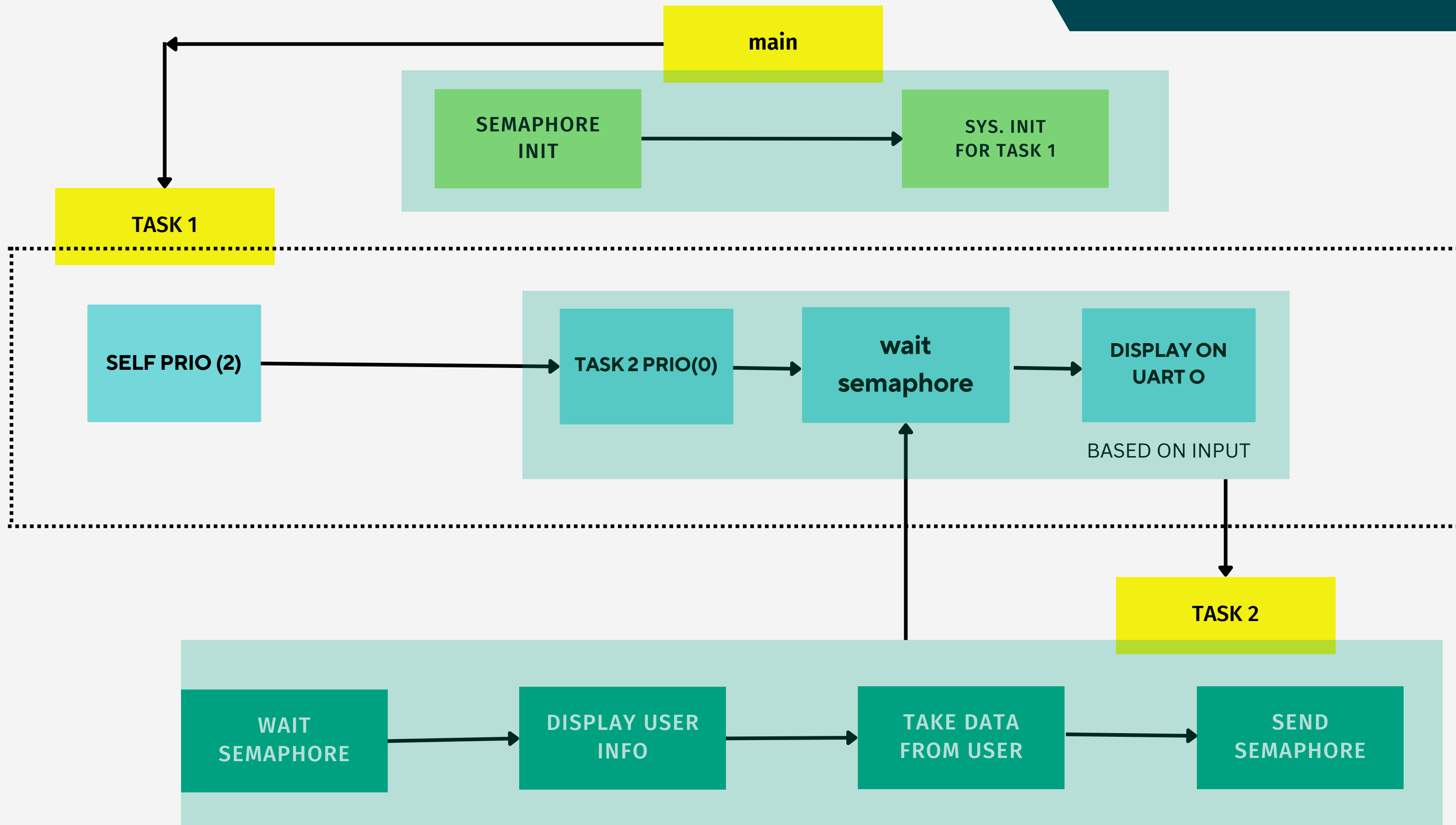
01FE20BEC223-5TH SEM

Under the Guidance of

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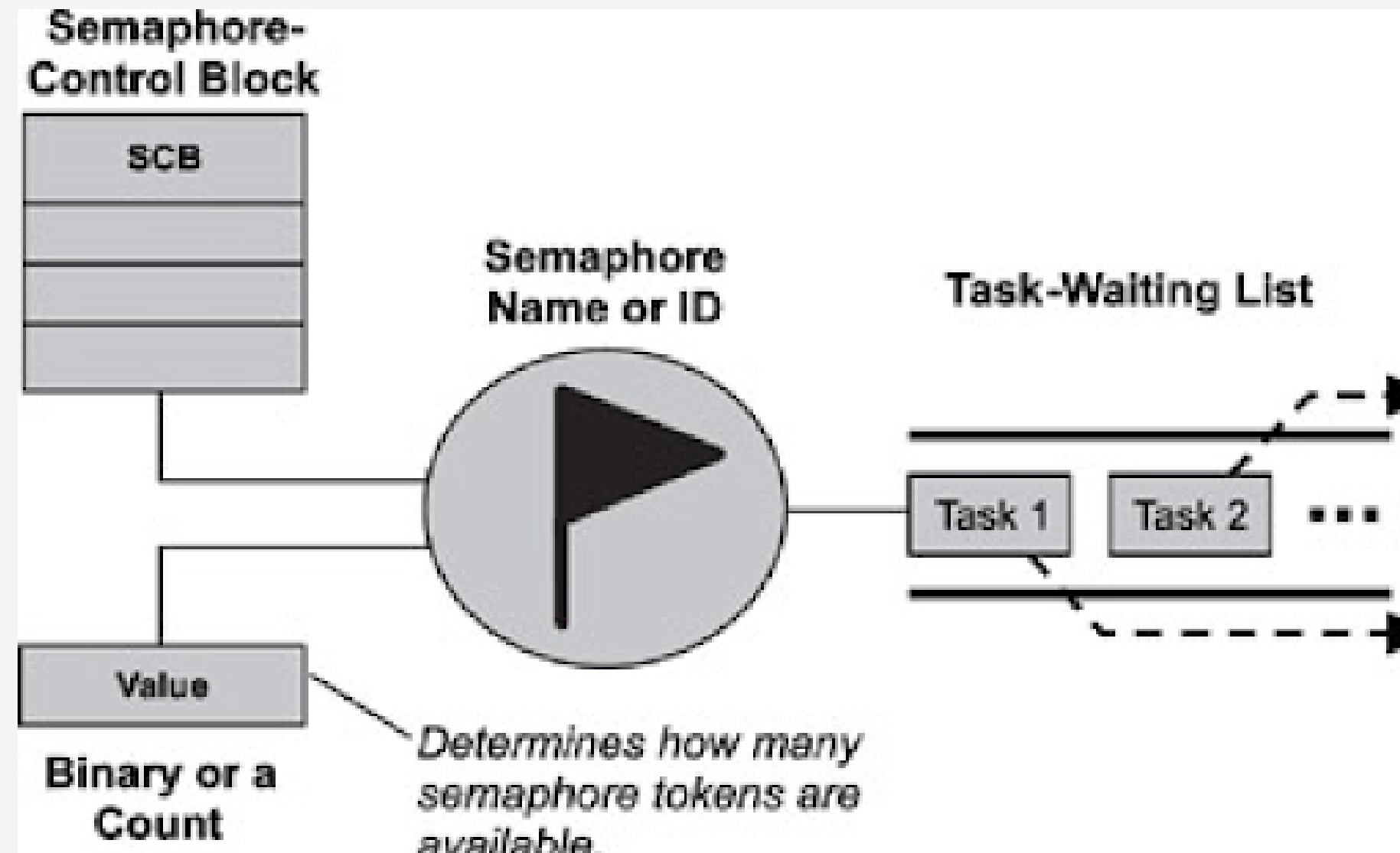


# PROGRAM PIPELINE



# Kernel Object: Semaphore

- A semaphore (sometimes called a semaphore token) is a kernel object that one or more threads of execution can acquire or release for the purposes of synchronization or mutual exclusion.
- When a semaphore is first created, the kernel assigns to it an associated semaphore control block (SCB), a unique ID, a value (binary or a count), and a task-waiting list.



**THANK YOU**

