

# Mini Project: Student Task Manager

## Using Position ADT

- Create a Task Manager where tasks are stored in a Positional List.
- Each task has:
  - Task ID
  - Task Name
  - Priority (1 - 5)
  - Status (Pending/ Completed)
- The system must use a Position ADT, not index-based operations.
- Required Classes
  - Position<E> interface
  - Node<E> class
  - PositionalList<E>
    - Size() – returns number of elements
    - isEmpty() – returns true if empty
    - first() – returns first position
    - last() – returns last position
    - before(p) – position before p
    - after(p) – position after p
    - addFirst(e) – insert at the beginning
    - addLast(e) - insert at the end
    - addBefore(p, e) – insert before position p
    - addAfter(p, e) – insert after position p
    - remove(p) – remove position p
  - Task class
    - Variables taskID, taskName, priority, status.
    - Include toString() method
  - TaskManager class
  - Main