

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