Project 4

- TODO
  - Course DB Structure *implements* Course DB Structure Interface
    + add (element: CourseDB Element): void
    + get (CRN: int): Course DBElement
    + getTableSize(): int

  - Course DB Manager *implements* Course DB Manager Interface
    + add (id: String, CRN: int, credits: int, roomNum: String, instructor: String): void
    + get (CRN: int): Course DBElement
    + readFile (input: File): void
    + showAll(): ArrayList <String>

    - Tips
      - Use Alert to print out db elements
      - input added to db through add method
      - add() = CDS add()
      - Perform data validation
      - no bad data goes into db

  - Course DB Element
    - courseID: String
    - CRN: int
    - number Of Credits: int
    - room Number: String
    - instructor Name: int

    + get Course ID (): String
    + get CRN (): int
    + get Number Of Credits (): int
    + get Room Number (): int
    + get Instructor Name (): String
    + set Course ID (ID: String): void
    + set CRN (CRN: int): void
    + set Number Of Credits (credits: int): void
    + set Room Number (room Num: int): void
    + set Instructor Name (name: String): void

- Exceptions
  - IO Exception
    - thrown when input file can't be read
    - thrown when trying to get CDE that doesn't exist

  - Tips
    - line starting with # is VALID