Code Review

# OVERVIEW

* Why? Reveal defects early – defects less costly to fix
* What to review?
  + Requirements specifications
  + Schedules
  + Bug reports
  + Design documents
  + Code
  + Test plans
  + Test cases
* **Informal review**: written or verbal review requested by a developer of a work product
* **Formal review**: written review conducted by a team leader or a moderator to identify, document, and fix defects in a work product

# Types of Reviews

* **Desk Check** (informal review)
  + Author distributes work to peers for reviews and comments
* **Walkthrough** (informal review meeting)
  + Moderated by the author
* **Inspection** (formal review meeting)
  + **Guided by a moderator**
  + Produces a log of identified defects in a work product
* **Code review** (software inspection)
  + Identifying, logging, and perhaps correcting bugs

# Desk Check (peer informal reviews)

* + Desk check: first line of defence against defects.
    - Speed up formal inspections
    - Sometimes, desk check is enough
  + But
    - Only effective if taken seriously, it’s important to spend enough time on desk checks, and managers must allocate time for them

# Walkthroughs (author guide people with less expertise to review)

* + - Author distribute presentation material
    - Solicit feedback from the audience
    - Follow up with attendees who have helped out by giving comments

# Inspection (formal review meeting)

* + - Participants identify, and propose solutions to defects

# Code Review (examines source code)