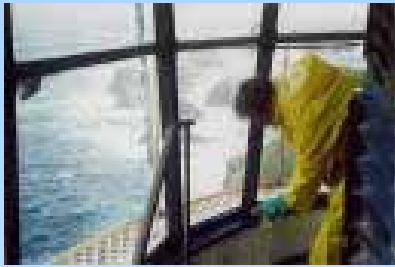


CS-1st Year

Systems Analysis and Design

G.K.A. Dias

System Development Life Cycle (SDLC)



Problem Definition



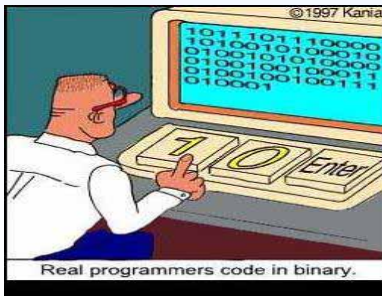
System Analysis



System Design



System Implementation



System Testing



Maintenance

System Development Life Cycle (SDLC)

- A systematic approach to software development
- Composed of several phases,
 - **Problem Definition** - identifies and defines a need for the new system
 - **System Analysis** - analyzes the information needs of the end users
 - **System Design** - creates a blueprint for the design with the necessary specifications for the hardware, software, people and data resources
 - **System Implementation**- creates and programs the final system
 - **System testing** - evaluates the system's actual functionality in relation to expected or intended functionality.
 - **Maintenance** – keeping the system up to date with the changes in the organization and ensuring it meets the goals of the organization

Why we need a life cycle in systems development?

- **to ease the process** of building a system
- **to build high** quality systems that meets customer expectations, within time and cost estimates
- **to work effectively** and efficiently in the current and planned information technology infrastructure
- **to avoid failures** like unclear objectives, cost overruns, and
- **to maintain** cheaply and **enhance** cost effectively

