FACULTY OF ENGINEERING & TECHNOLOGY

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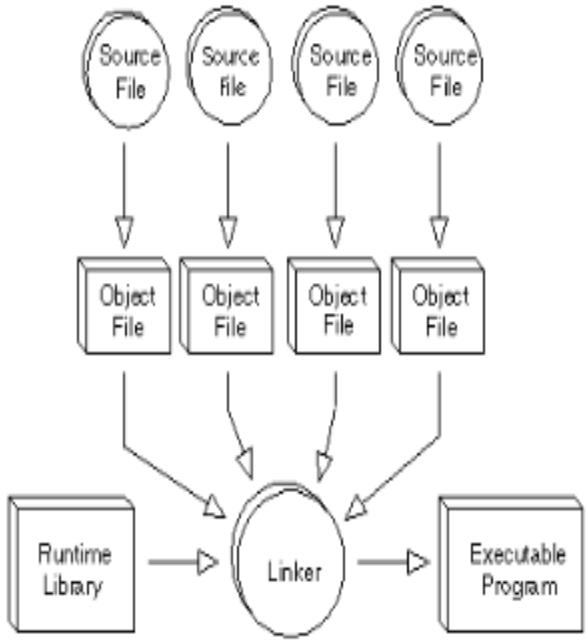
Topics Covered

Compiler
Software Simulation

Compiler

- Compiler is a program that translates *source code* into *object code*.
- a compiler differs from an *interpreter*, which analyzes and executes each line of source code in succession, without looking at the entire program

- Every high-level programming language (except strictly interpretive languages) comes with a compiler.
- The compiler industry is quite competitive, so there are actually many compilers for each language on each type of computer



Software Simulation

- A simulation is an animated model that mimics the operation of an existing or proposed system, like the day-to-day operation of a bank, running an assembly line, or assigning staff in a hospital or call center
- A software simulation is a model of your software that allows you to demonstrate its key functions and operations
- Using software simulations, you can show your customer how everything works in your program
- Simulation is the imitation of the operation of a real-world process or system over time
- Simulation offers a powerful, evidence-based approach to decision making - by using a virtual representation to test the impact of process changes and 'what if' scenarios, you can find an approach that delivers the best results

Software Simulation

- Simulation is the imitation of the operation of a real-world process or system over time.
- The act of simulating something first requires that a model be developed; this model represents the key characteristics or behaviors of the selected physical or abstract system or process.