

1: Software Development and Software Engineering

Programming:

Requirements are given/fixed

Select data structures and algorithms

Software Development:

Find/fix the requirements

Design/discuss the architecture and code.

Software is:

1. Instructions (computer programs) that when executed provide features and performance.
2. Data structures that enable the programs to manipulate information
3. Documentation that describes the operation and use of the programs.

Legacy software: why must software change?

- To adapt to meet the needs of new computing environments or technology
- Software must be enhanced to implement new business requirements.

-Every software project is produced by some business need

What is software:

- Developed or engineered it is not manufactured in the classical sense.
- It does not wear out but deteriorate.

Essence of Software Engineering:

1. Understand the program
2. Plan a solution
3. Carry out the plan
4. Examine result for accuracy.

Process Framework Activities:

- Communication
 - Planning
 - Modelling
 - Analysis of requirements
 - Design
- Construction
 - Code generation
 - Testing
- Deployment

Umbrella Actives:

- Software project tracking and control.
- Quality assurance.
- Reusability management.