



Seminar Objectives

- Generating test cases for different levels of testing.
- Levels of testing: unit, integration, functional, regression, acceptance.



Theoretical aspects

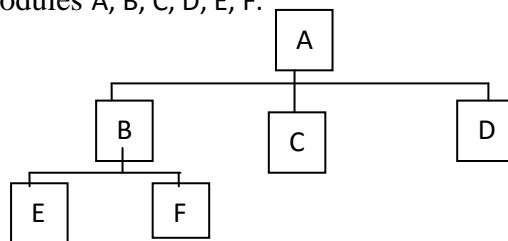
- Generating test cases for different levels of testing.
- Continuous Integration.
- References: Unit testing [Myers] – chapter 5; [Naik] – chapter 3
Integration testing - Techniques: [Naik] – chapter 7
Regression testing - [Young] –chapter 22
Function[al] testing [Myers] – chapter 6; [Naik] – chapter 9; [Young] –chapter 10
System testing [Myers] – chapter 6; [Naik] – chapter 8; [Young] –chapter 22
Acceptance testing [Naik] – chapter 14; [Young] –chapter 22
- References: [Myers]–chapter 4; [Naik]–chapter 4; [Young]–chapter 12; [Patton] –chapter 6,7
[Myers] Glenford J. Myers, *The Art of Software Testing*, John Wiley & Sons, Inc., 2004
[Naik] K. Naik, P. Tripathy, *Software testing and quality assurance. Theory and Practice*, A John Wiley & Sons, Inc., 2008
[Young] M. Pezzand, M. Young, *Software Testing and Analysis: Process, Principles and Techniques*, John Wiley & Sons, 2008

Assignment

Integration testing strategies:

- Big-Bang integration
- Incremental integration
 - o Bottom-up
 - o Top-down
 - ♣ depth first
 - ♣ breath first
- Sandwich integration

Problem 1) For modules A, B, C, D, E, F.



Problem 2) An array of integer numbers is given. The application must:

- compute the longest sequence of prime numbers;
- sort the obtained sequence;
- print the sequence.

