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BCS 3263 SOFTWARE QUALITY ASSURANCE

Chapter Six Software Validation

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Chapter Description

- Aims
 - Validation of a software product
- Expected Outcomes
 - Develop a Quality Assurance plan for a software project using international standards.
- Other related Information
 - Introduces students to the concept of Software Quality Assurance (SQA) including principles, component, process, models, standards and certification of SQA.
- References
 - Mastering software quality assurance : best practices, tools and techniques for software developers / Murali Chemuturi Chemuturi, Murali, J. Ross Pub. QA76.76.Q35 C44 2011



Validation

Confirmation

- that the product will fulfil its intent of use

Ensures

- that *“you built the right thing”*.

Purpose

- to demonstrate the confirmation and ensures.

Validation

Example:

- You are entering into a contract with someone. Before you sign the contract, you show it to a lawyer for validation (not verification). Only after the lawyer certifies that it is valid (that is, legally valid and that it would be valid in a court of law) do you sign it.

Example:

- An automobile manufacturer claims that its new model car is capable of achieving a fuel consumption rate of 230 miles per gallon. The marketing department demonstrates this claim in front of a select set of journalists, and the journalists substantiate it.

Validating the product specifications

Validating the product specifications.

- Brainstorming experts meet informally and brainstorm the artifact to be validated.

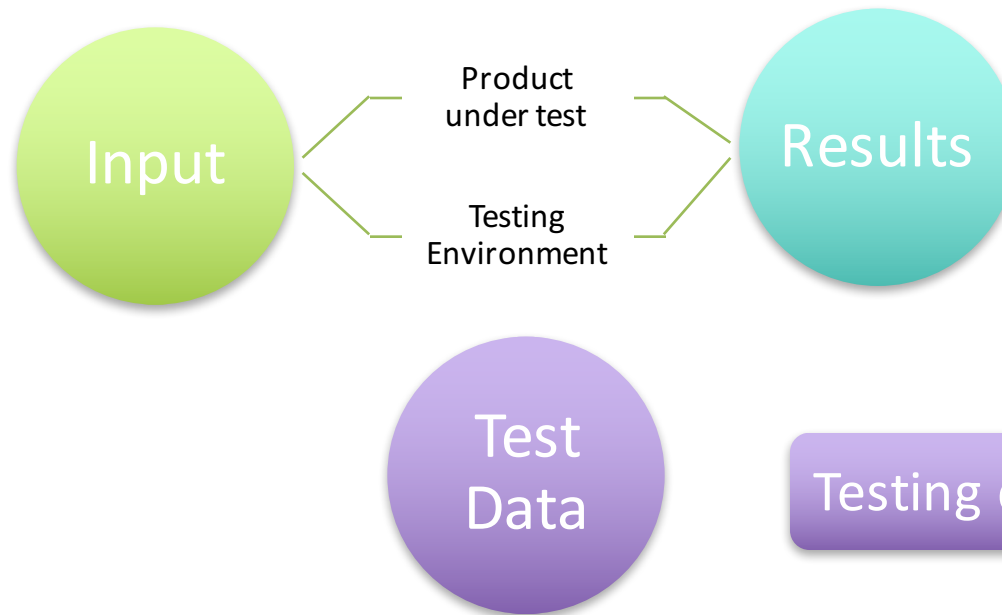
Software Designs

Validation of software designs.

- The robust of the design to build the product and the testing of the product.

Validating the Software Product

Software testing is the main tool for validating the final software product



Conclusion of The Chapter

- Conclusion #1
 - Validation of designs and specifications
- Conclusion #2
 - Validation of a software product
- Conclusion #3
 - Testing basics, testing techniques, and approaches to testing



Thank you 😊