

Component 4: Introduction to Information and Computer Science

Unit 5: Overview of Programming Languages, Including Basic Programming Concepts Lecture 4

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Unit 5 Objectives

- a) Define the purpose of programming languages.
- b) Define the different types of programming languages.
- c) Explain the continuum of programming languages from machine code and assembly languages through scripting languages and high level structured programming languages.
- d) Explain the compiling and interpreting process for computer programs.
- e) Use the following components of programming languages to build a simple program: variables, loops and conditional statements.
- f) Introduce additional programming concepts such as objects and modularity.

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Control Structures

- Control structures determine the execution of a program
- · Conditional statements
 - if

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- case or switch
- Repetitive statements loops

- while

– for

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do while

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