**LO1:  Understand programming languages.**

1.1 Explain the principles and concepts of programming languages.

Guidance:   
  
   
As a minimum, your report should include:

* Procedural languages: (Pascal, C, Fortran)
* Statements, blocks, procedures, functions
* Libraries
* Parameter passing
* Debugging code
* Object Oriented languages: (Visual C#, C++, .NET, Java, Python etc.)
* Classes, Objects
* Abstraction
* Encapsulation
* Inheritance
* Polymorphism
* Design patterns
* IDEs
* Event Driven languages (Visual Basic, Visual C++ and Java etc.)
* Event types
* Triggers
* Controls and tools
* Use of loops
* Event listeners and handlers
* Links to Visual Languages – objects/properties/menus

Programming languages: e.g. Visual Basic, Visual C++ and Java