Python Essentials 1- Basic

Module 1: Introduction to Python and Computer programming

1.1 Introduction to programming with Python

1.2 Downloading and installing Python

Module 1 Quiz and Test

Module 2: Datatypes, Variables, Basic I/O operations, and Basic operators

2.1 Basic Program

2.2 Python Literals

2.3 Arithmetic operators and hierarchy of Priority

2.4 Variables

2.5 Comments

2.6 Input () function, type casting and string operators

Module 2 Quiz and Test

Module 3: Boolean values, Conditional execution, Loops, Lists and List processing, Logical and Bitwise operators

3.1 Comparison operators and conditional execution

3.2 Loops

3.3 Logic and bit operators in Python

3.4 Lists, Sorting simple lists

3.5 List Processing

3.6 Multidimensional arrays

Module 3 Quiz and Test

Module 4: Functions, Tuples, Dictionaries, Data processing and Exceptions

4.1 Functions

4.2 Functions parameters and argument passing

4.3 Returning results from functions

4.4 Functions and Scopes

4.5 Creating simple functions

4.6 Tuples and Dictionaries

4.7 Exceptions

Module 4 Quiz and Test