[Perform Operations using Data Types and Operators (20-25%)](https://www.microsoft.com/en-us/learning/exam-98-381.aspx" \l "syllabus-1)

* Evaluate an expression to identify the data type Python will assign to each variable
  + Identify str, int, float, and bool data types
* Perform data and data type operations
  + Convert from one data type to another type; construct data structures; perform indexing and slicing operations
* Determine the sequence of execution based on operator precedence
  + Assignment; Comparison; Logical; Arithmetic; Identity (is); Containment (in)
* Select the appropriate operator to achieve the intended result
  + Assignment; Comparison; Logical; Arithmetic; Identity (is); Containment (in)

[Control Flow with Decisions and Loops (25-30%)](https://www.microsoft.com/en-us/learning/exam-98-381.aspx#syllabus-2)

* Construct and analyze code segments that use branching statements
  + if; elif; else; nested and compound conditional expressions
* Construct and analyze code segments that perform iteration
  + while; for; break; continue; pass; nested loops and loops that include compound conditional expressions

[Perform Input and Output Operations (20-25%)](https://www.microsoft.com/en-us/learning/exam-98-381.aspx#syllabus-3)

* Construct and analyze code segments that perform file input and output operations
  + Open; close; read; write; append; check existence; delete; with statement
* Construct and analyze code segments that perform console input and output operations
  + Read input from console; print formatted text; use of command line arguments

[Document and Structure Code (15-20%)](https://www.microsoft.com/en-us/learning/exam-98-381.aspx#syllabus-4)

* Document code segments using comments and documentation strings
  + Use indentation, white space, comments, and documentation strings; generate documentation by using pydoc
* Construct and analyze code segments that include function definitions
  + Call signatures; default values; return; def; pass

[Perform Troubleshooting and Error Handling (5-10%)](https://www.microsoft.com/en-us/learning/exam-98-381.aspx#syllabus-5)

* Analyze, detect, and fix code segments that have errors
  + Syntax errors; logic errors; runtime errors
* Analyze and construct code segments that handle exceptions
  + Try; except; else; finally; raise

[Perform Operations Using Modules and Tools (1-5%)](https://www.microsoft.com/en-us/learning/exam-98-381.aspx#syllabus-6)

* Perform basic operations using built-in modules
  + Math; datetime; io; sys; os; os.path; random
* Solve complex computing problems by using built-in modules
  + Math; datetime; random