



ITS OD 303 Python 0225

1. Operations using Data Types and Operators

1.1 Evaluate expressions to identify the data types Python assigns to

variables

- str, int, float, and bool

1.2 Perform and analyze data and data type operations

- Data type conversion, indexing, slicing, construct data structures, lists, list operations (including sorting, merging, appending, inserting, removing, finding maximum and minimum, and reversing)

1.3 Determine the sequence of execution based on operator precedence

- Assignment (`=`, `+=`, `-=`, `/=`, `%=`, `//=`, `**=`), comparison (`==`, `>=`, `<=`, `!=`), logical (and, or, not), logical, arithmetic (`+`, `-`, `/`, `//`, `%`, `**`, unary `+` and `-`), identity (`is`), containment (`in`)

1.4 Select operators to achieve the intended results

- Assignment (`=`, `+=`, `-=`, `/=`, `%=`, `//=`, `**=`), comparison (`==`, `>=`, `<=`, `!=`), logical (and, or, not), logical, arithmetic (`+`, `-`, `/`, `//`, `%`, `**`, unary `+` and `-`), identity (`is`), containment (`in`)

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2. Flow Control with Decisions and Loops

2.1 Construct and analyze code segments that use branching statements

- if, elif, else, nested and compound conditional expressions

2.2 Construct and analyze code segments that perform iteration

- while, for, break, continue, pass, nested loops, loops that include compound conditional expressions

3. Input and Output Operations

3.1 Construct and analyze code segments that perform file input and

output operations

- open, close, read, write, append, check existence, delete, with statement

3.2 Construct and analyze code segments that perform console input

and output operations

- Read input from console, print formatted text (string.format() method, f-String method), use command-line arguments

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4. Code Documentation and Structure

4.1 Document code segments

- Use indentation, white space, comments, and docstrings; generate documentation by using pydoc

4.2 Construct and analyze code segments that include function definitions

- Call signatures, default values, return, def, pass

5. Troubleshooting and Error Handling

5.1 Analyze, detect, and fix code segments that have errors

- Syntax errors, logic errors, runtime errors

5.2 Analyze and construct code segments that handle exceptions

- try, except, else, finally, raise

5.3 Perform unit testing

- Unittest, functions, methods, and assert methods (assertIsInstance, assertEqual, assertTrue, assertIs, assertIn)

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6. Operations using Modules and Tools

6.1 Perform basic file system and command-line operations by using

built-in modules

- `io, os, os.path, sys` (importing modules, using modules to open, read, and check existence of files, command-line arguments)

6.2 Solve complex computing problems by using built-in modules

- `Math` (`fabs, ceil, floor, trunc, fmod, frexp, nan, isnan, sqrt, isqrt, pow, pi`)
`datetime` (`now, strftime, weekday`), `random` (`randrange, randint, random, shuffle, choice, sample`)

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