

<https://www.microsoft.com/en-us/learning/exam-98-381.aspx>

## Microsoft Python Certification 98-381

### INTRODUCTION TO PROGRAMMING USING PYTHON

Exam Pattern:

Number of Questions: 40

Duration: 45 Mins

Questions Type: Multiple Choice, Drag & Drop, Selection from drop down list

Passing Score: 70%

No Negative Marking

#### Syllabus:

Perform Operations using Data Types and Operators (20-25%)

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%)

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%)

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%)

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%)

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%)

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

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Skills measured:

This exam measures your ability to accomplish the technical tasks listed below. View video tutorials about the variety of question types on Microsoft exams.

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Test Details

Duration: 60 minutes

No. of questions: 50

Maximum marks: 50, Passing marks: 25 (50%).

There is NO negative marking in this module.

70 exam centres in India.

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