

BASIC MATHEMATICAL EXPRESSIONS

| | Python | C++ |
|----------------|--------|-----|
| addition | + | + |
| subtraction | - | - |
| division | / | / |
| multiplication | * | * |
| modulo | % | % |

LIBRARIES

| Python | C++ |
|--------------------|------------------------|
| import libraryname | #include <libraryname> |

SENDING OUTPUT TO TERMINAL

| Python | C++ |
|---------------------------|----------------------------------|
| print("output something") | std::cout << "output something"; |

INITIALIZING VARIABLES

| Python | C++ |
|------------------|--|
| variable = value | datatype variable = value; Example: int x = 5; |

COMPARISON OPERATORS

| Python | C++ |
|--------|-----|
|--------|-----|

| | |
|----|----|
| == | == |
| != | != |
| > | > |
| < | < |
| >= | >= |
| <= | <= |

LOGICAL OPERATORS

| Python | C++ |
|--------|-----|
| and | && |
| or | |
| not | ! |

CONTROL FLOW

| Python | C++ |
|---|--|
| <pre>if <i>condition</i>: do this elif: do this else: do this</pre> | <pre>if (<i>condition</i>) { do this; } else if (<i>condition</i>) { do this; } else (<i>condition</i>) { do this; }</pre> |
| <pre>while <i>condition</i>: do this</pre> | <pre>while (<i>condition</i>) { do this; }</pre> |
| <pre>for <i>condition</i>: do this</pre> | <pre>for (<i>condition</i>) { do this; }</pre> |

FUNCTION DEFINITIONS

| Python | C++ |
|---|--|
| <pre>def function(x, y): code ... return result</pre> | <pre>outputdatatype function (datatype x, datatype y) { code ...; return result; }</pre> |