**Data Types** – In PYTHON.

**Numbers**- int(s) & float(s)

**Strings**- ‘A String’ || “A String” || ‘Same’ = “Same”

**Multi-line strings-** uses triple quotes - (""" or ''')

**C-style Strings**- Uses **%d** (For Int) / **%f** (For Float) / **%s** (For String)

**Precision-** Uses **%04d** (For Int)?? / **%.2f** (For 2 Decimal Places = 19.75)

EX: print(“My name is %s” % nameVar)

**Conversions**- **int(**toIntVar**)** / **float(**toFloatVar**)** / **str(**toStringVar**)**

**Variable Names-** Starts with Underscore || Lower || Uppercase Letter

**Basic Operators-** **+** (<-Add) **-** (<-Subtract) **/** (<-Float Division)

**//** (<-No Remainder[Int Division][Floor])  **\*** (<-Multiply) **\*\*** (<-Exponent)

**%** (<-Modulus [Only Remainder]) **<<** (<-Left Bit Shift) **>>** (<-Right Bit Shift)

**Shorthand**-> **+= -= \*= \*\*= /= //= %= &= |= ^= <<= >>=**

**Comparison Operators**- **<** (<-Less Than) **>** (<-Greater Than)

**==** (<-Compares if Objects are Equal) **!=** (<-Not Equal)

**Logical Operators**- **and not or**

|  |  |  |
| --- | --- | --- |
| Operator | Meaning | Example |
| and | True if both the operands are true | x and y |
| or | True if either of the operands is true | x or y |
| not | True if operand is false (complements the operand) | not x |

**Membership Operators**- **in not in**

|  |  |  |
| --- | --- | --- |
| Operator | Meaning | Example |
| in | True if value/variable is found in the sequence | 5 in x |
| not in | True if value/variable is not found in the sequence | 5 not in x |