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Python Quick Reference

Variable

```python
# Assign an number
x = 5
# Assign String variable
maker = "I am a maker "
# Make a number into a string
str(x)
# Combine strings
newString = maker + " More string"
```

Strings

```python
# Output a string
print("Hello World ")
# output a number
print(x)
# output string and number
print("hello "+str(x)+ " world")
#input
myVariable = input("message")
#to input number eval output
myVariable = eval(myVariable)
```

Lists

```python
# Make a list
myList = ["item0 ", "item1 ", "item2 "]
# Add item to list
myList.append("item3")
# Select first item in a list
myList[0]
# Select last item in the list
myList[-1]
```

Import

```python
import time
# Call function from time
time.sleep(1) # Wait for 1 second
# Import single function
from math import sqrt
# Call
sqrt(2)
```

Maths

```python
# Addition          # Multiplication
1+3                          1*3
# Exponent          # Integer Division
2**3                         2//3
# Subtraction            # Division
1-3                          1/3
# Modulus
2%3
```

Logic

```python
# Return True            # Return False
True                            False
not False                    not True
(True | False) # or    (False | False) # or
(True & True) #and (True & False) #and
```

Compare

```python
# Return True if comparison holds
x > y    # Greater than
x < y    # Less
x <= y   # Less or equal
x >= y   # Greater or equal
x == y   # Equal
x != y   # Not equal
```

If..else

```python
if(x > y):
        print("x is larger ")
elif(x < y):
        print("y is larger ")
else:
        print("Equality! ")
```

Functions

```python
# define a function
def threeTimes(xIn):
        return xIn*3
# Call with input=5
threeTimes(5)
# Define Lambda function
t = 6
tMult= lambda a : a*t
# Call with a = 5 t=6
tMult(5)
t = 1
# Call with a = 5 t=1
tMult(5)
```

Loops

```python
# While less than
while(x < y):
        x += 1
        print(x)
# While true with break
while(True):
        x += 1
        print(x)
        if(x>y):
                break


# For loop with default count
for i in range(1,10):
        print(2**i)
# For loop with custom count
for i in range(10,-10,-1):
        print(2**i)
# For loop over list elements
for i in myList:
        print(i)
```

Classes

```python
# define Class
class myClass:
    # Initialisation
    def __init__(self,in1,in2):
        self.input1 = in1
        self.input2 = in2
    def add(self): # Class method
        return self.input1+self.input2
# Run the program
myObject = myClass(1,2)
myObject.add ()
```

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The Python Quick Syntax Reference

Lei Huang

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