



Python Quick Reference

```
# 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"
```

Variable

```
# 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)
```

Strings

```
# 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]
```

Lists

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

Import

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

Maths

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

Logic

```
# 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
```

Compare

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

If..else

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

Functions

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

Loops

```
# 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)
```

```
# 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 ()
```

Classes

The Python Quick Syntax Reference

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Table of Contents The Python Quick Syntax Reference

1. Understanding the eBook The Python Quick Syntax Reference
 - The Rise of Digital Reading The Python Quick Syntax Reference
 - Advantages of eBooks Over Traditional Books
2. Identifying The Python Quick Syntax Reference
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Python Quick Syntax Reference
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Python Quick Syntax Reference
 - Personalized Recommendations
 - The Python Quick Syntax Reference User Reviews and Ratings
 - The Python Quick Syntax Reference and Bestseller Lists
5. Accessing The Python Quick Syntax Reference Free and Paid eBooks
 - The Python Quick Syntax Reference Public Domain eBooks
 - The Python Quick Syntax Reference eBook Subscription Services
 - The Python Quick Syntax Reference Budget-Friendly Options

6. Navigating The Python Quick Syntax Reference eBook Formats
 - ePub, PDF, MOBI, and More
 - The Python Quick Syntax Reference Compatibility with Devices
 - The Python Quick Syntax Reference Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Python Quick Syntax Reference
 - Highlighting and Note-Taking The Python Quick Syntax Reference
 - Interactive Elements The Python Quick Syntax Reference
8. Staying Engaged with The Python Quick Syntax Reference
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Python Quick Syntax Reference
9. Balancing eBooks and Physical Books The Python Quick Syntax Reference
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Python Quick Syntax Reference
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine The Python Quick Syntax Reference
 - Setting Reading Goals The Python Quick Syntax Reference
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of The Python Quick Syntax Reference
 - Fact-Checking eBook Content of The Python Quick Syntax Reference
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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