

Python Quick Reference, last modified 9-29-23

Instruction	What that means in Python
Ask the user to enter their name	<code>name = input("Please enter your name: ")</code>
Ask the user to enter their age as an integer	<code>age = int(input("Please enter your age: "))</code>
Ask the user to enter a number, and store it in a variable named "guess"	<code>guess = int(input("Enter a number: "))</code>
Do a while True loop	<code>while True:</code>
In a while True loop, if the user enters nothing, leave the loop	<pre>while True: e = input("Enter something: ") if e == "": break</pre>
Print the variable "name" lowercase	<code>print(name.lower())</code>
Print the variable "name" uppercase	<code>print(name.upper())</code>
Replace each letter "e" with a "3" in the String "name"	<code>name = name.replace("e", "3")</code>
Do an if/elif/else statement	<pre>if age > 18: print("You have already been able to vote.") elif age < 18: print("You cannot vote") else: print("Congratulations you now can vote.")</pre>
Create an empty list named "shopping"	<code>shopping = []</code>
Add "carrots" to the shopping list	<code>shopping.append("carrots")</code>
Sort the shopping list	<code>shopping.sort()</code>
Print the shopping list	<code>print(shopping)</code>
Print how long the shopping list is	<code>print(len(shopping))</code>
Report how many times "carrots" is in the shopping list	<code>print(shopping.count("carrots"))</code>
Print the variable name centered in 20 \$s	<code>print(name.center(20, "\$"))</code>
Print how long the variable name is	<code>print(len(name))</code>
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Use a while loop to print "Go tigers!" 5 times	<pre>x = 0 while x < 5: print("Go tigers!") x = x + 1</pre>
Use modulo to tell if a number is odd or even	<pre>if n%2 == 0: print(n,"is even") else: print(n,"is odd")</pre>
Print the variable n squared	<pre>print(n**2)</pre>
Print the square root of n	<pre>print(n**.5)</pre>
Print a number times 10	<pre>print(n*10)</pre>
Use a for loop to print the numbers 1 through 5	<pre>for x in range(1,6): print(x)</pre>
Use a for loop to print the numbers 1 through 5 on a single line 1 2 3 4 5	<pre>for x in range(1,6): print(x,end="\t") print()</pre>
Use a for loop to print the contents of a list (assume that someone already made a list called foods which contains several items)	<pre>for food in foods: print(food)</pre>
Use a for loop to print "hello" four times	<pre>for x in range(4): print("hello")</pre>
Use a for loop to print the numbers 3 to 17 in three columns 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<pre>c = 0 for num in range(3,18): print(num,end="\t") c = c + 1 if c%3==0: print()</pre>
Use two for loops to print the times tables from 1 to 5 1 2 3 4 5 2 4 6 8 10 3 6 9 12 15 4 8 12 16 20 5 10 15 20 25	<pre>for x in range(1,6): for y in range(1,6): print(x*y,end="\t") print()</pre>
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<p>Use a try/except structure to ask the user for an integer</p>	<pre>while True: try: num = int(input("Enter an integer: ")) break except ValueError: print("That was not an integer. Try again.")</pre>
<p>Use a try/except structure to ask the user for an integer between 5 and 10 inclusive. Give one error if they do not enter an integer, another if they enter a number that is too small, and a third error if the number is too large.</p>	<pre>while True: try: num=int(input("Enter an integer b/w 5 & 10: ")) if num > 10: print("Too large, please try again.") elif num < 5: print("Too small, please try again.") else: break except ValueError: print("That was not an integer. Try again.")</pre>