

# PyShop Cheat Sheet

## Python Syntax

Action	Python code
Print something	<pre>print("This will be printed")</pre>
Assign a variable	<pre>myVariable = 42 myOtherVariable = "Hello"</pre>
if/else	<pre>if age &gt; 17:     print("You are an adult") else:     print("You are not an adult yet")</pre>
Getting input	<pre>name = input("What is your name?") age = int(input("What is your age?"))</pre>
Cast input	<pre>userInput = input("age:") age = int(userInput) print(age)</pre>
Handling exceptions	<pre>userInput = input("age:") try:     age = int(userInput)     print(age) except ValueError:     print("you did not enter an int")</pre>
for loop	<pre>fruits = ["banana", "apple"] for f in fruits:     print(f)</pre>

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while loop	<pre>password="" while password!="secret":     print("What is the password?")     password=input() print("You guessed it!")</pre>
Functions	<pre>def print_welcome(name):     print("Welcome", name)  print_welcome("Casey")</pre>
Lists	<pre>textList = ["a","b"] numberList = [1,2,3] mixedList = ["a",1,"b",2]  print(textList[0]) print(len(textList)) textList.append("d") textList[0] = "z" textList.remove("b")</pre>
2D Lists	<pre>myList = [ [0,1,2,3,4], [3,6,1]] print(myList[0][1])</pre>

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Dictionaries	<pre>cars = {     "Audi Q5":20000,     "Volkswagen Polo":18000 } print(list(cars.keys())) print(cars) print(cars["Audi Q5"]) print(len(cars)) cars["Ford KA"]=500 cars["Audi Q5"]=10000 cars.pop("Audi Q5")</pre>
Reading a file	<pre>f = open("Test1.txt","r") for line in f:     print(line) f.close()</pre>
Writing to a file	<pre>f = open("Test2.txt", "w") f.write("This is written.") f.close()</pre>
Append to a file	<pre>f = open("Test2.txt", "a") f.write("This is appended") f.close()</pre>
Create a file	<pre>f = open("myfile.txt", "x")</pre>