

Python Dictionary

In [2]:	# zip?
In [17]:	x = {'x', 'y', 'z'} y = [1, 2, [2, 7, 1]]
In [20]:	# z = dict(zip(x, y))
In [21]:	# z
In []:	
In [29]:	d1 = { 'k1': 50, 'k2': 30, 'k3': 40 }
In [30]:	d2 = { 'k4': 60, 'k3': 90 }
In [28]:	# d1.update(d2)
In [31]:	d3 = (**d1, **d2)
In [32]:	d3
Out[32]:	{'k1': 50, 'k2': 30, 'k3': 90, 'k4': 60}
In [36]:	# from collections import ChainMap
In [37]:	# ch = ChainMap(d1, d2)
In []:	
In [38]:	d1 = { 'k1': 50, 'k2': 30, 'k3': 40 }
In [40]:	# dict --- dict.pop()
In [43]:	x = d1.pop('k2')
In [45]:	d1
Out[45]:	{'k1': 50, 'k3': 40}
In [46]:	d1
Out[46]:	{'k1': 50, 'k3': 40}
In [47]:	d1['k2'] = 20 # update or add
In [48]:	d1
Out[48]:	{'k1': 50, 'k3': 40, 'k2': 20}
In []:	
In [49]:	d1 = { 'k1': 50, 'k2': 30, 'k3': 40 }
In [50]:	y = d1.popitem()
In [51]:	y
Out[51]:	('k3', 40)
In [52]:	d1
Out[52]:	{'k1': 50, 'k2': 30}
In []:	
In [54]:	d1 = { 0: '001', 1: '002', 2: '003' }
In []:	
In [59]:	keys = ['a', 'b', 'c']
In [60]:	value = 0
In [61]:	data = dict.fromkeys(keys, value)
In [62]:	data
Out[62]:	{'a': 0, 'b': 0, 'c': 0}
In []:	
In [75]:	d1 = { 'a': '001', 'b': '002', 'c': '003' }
In [76]:	x = d1.setdefault('c', '004')
In [78]:	d1
Out[78]:	{'a': '001', 'b': '002', 'c': '003'}
In []:	

Python Operators

In [82]:	print(5 and None)
	None
In [84]:	40 and [2] and 'a' and () and 8
Out[84]:	()
In [85]:	40 and [2] and 'a' or () and 8
Out[85]:	'a'
In [86]:	40 or [2] and 'a' or () and 8
Out[86]:	40
In [87]:	(-50 and 4.5 and True and 8) and not("abc" or None) #
Out[87]:	False
In [89]:	x = 3.141
In [91]:	# 3.14 < x < 3.142
In [92]:	3.14 < x and x < 3.142
Out[92]:	True
In []:	

Python Compound if Statement

In [4]:	if None: print("Some output")
In [7]:	if (-50 and 4.5 and True and 8) and not("" or None): print("Okay")
	Okay
In [13]:	if None == None: print('Output 1') elif 5 != 4: print('Output 2') elif 8 in [3, 7, 8, 1]: print('Output 3') else: print('Ouput 4')
	Output 1
In [14]:	# Nested if statements
In [15]:	if None: print('Output 1') elif 5 == 4: print('Output 2') elif 8 in [3, 7, 8, 1]: if 'abc1' == 'ABC'.lower(): print('Output 3 - A') elif '123'.isdigit(): print('Output 3 - B') else: print('Output 3 - C') else: print('Ouput 4')
	Output 3 - B
In []:	
In []:	
In [24]:	from getpass import getpass from IPython.display import clear_output
In [20]:	# if True: # pass
In [25]:	username = input('Enter name: ') password = getpass('Enter password: ') if username.lower() == "umair" and password == '123': clear_output() print(f'Welcome {username.title()}') elif username == "adnan" and password == "admin": pass else: print('invalid user')
	Welcome Umair
In []:	
In []:	#
In [32]:	marks = int(input("Enter Your Marks: ")) if marks < 0 or marks > 100: print('Invalid Marks') elif marks>=90 and marks<= 100: print(" Your Grade is A") elif marks>=80 and marks<= 89: print(" Your Grade is B") elif marks>=70 and marks<= 79: print(" Your Grade is C") elif marks>=60 and marks<= 69: print("Your Grade is D") else: print("Your are Fail")
	Invalid Marks
In []:	

Python Compound while Statement

In [35]:	x = 6 while x: print(x) if x == 3: break x = x - 1 else: print('Loop done')
	6 5 4 3
In [36]:	name = "qaim" while name: print(name) name = name[1:] # qaim # aim # im # m
	qaim aim im m
In []:	
In [49]:	users = ['umair', 'fareed', 'adnan', 'ahmad'] # database user = input('Enter username') i = 0 temp = 1 while i < len(users): if user == users[i]: temp = 0 print(f'Welcome {user}') break i += 1 if temp: print('Invalid Login')
	Welcome ahmad
In []:	
In [50]:	users = ['umair', 'fareed', 'adnan', 'ahmad'] # database user = input('Enter username') i = 0 while i < len(users): if user == users[i]: print(f'Welcome {user}') break i += 1 else: print('Invalid Login')
	Welcome adnan
In []:	
In [51]:	users = ['umair', 'fareed', 'adnan', 'ahmad'] # database user = input('Enter username') if user in users: print(f'Welcome {user}') else: print('Invalid Login')
	Welcome ahmad
In []:	

Happy Learning :)