Python Programming Fundamentals Cheat Sheet

Python Programming Fundamentals Cheat S		
Package/Method	Description	Syntax and Code Example Syntax:
		Systax: statement1 and statement2
		Example:
AND	Rature 'True' if both statements and statements are 'True'. Otherwise, returns 'False'.	marks = 00 attendance percentage = 87 if warks > 00 and attendance percentage >= 85:
		unit: -80 strondon_procestage + 50 if max - 100 and strondons_procestage > 45: if max - 100 and strondons_procestage > 45: point("will be founder")  point("will be founder")  point("will be founder")  point("will be founder")  point("will be founder")
		# dutput = qualify for honors
		Systax:
		class Classhame: # Class attributes and methods
Class Definition	Defines a blacquist for creating objects and defining their artibates and behaviors.	Example:
		(det berger:   det   del.(del, come, mp);   del.(del, come, mp);   del.(del, del, come, mp);   del.(del, del, come, mp);
		self.age = age
		Systax:
		def function_name(garameters): # Function body
Define Function	A 'function' is a remable block of code that performs a specific task or set of tasks when called.	Example:  def greet(name): print("Wello,", name)
		make the season of second 1 second 2
		Syntax:
		variable1 == variable2
		Example 1:
		5 5
Equal()	Checks if two values are equal.	
		nohama Truc
		Example 2: 2p = 15 Apr == 30
		notums False Syntax:
		Symiax: for variable in sequence: # Code to repeat
		Example 1:
		for num in range(s, 10): print(num)
For Loop	A 'for' loop requestedly executes a block of code for a specified number of iterations or over a sequence of demants (list, range, string, etc.).	
		Example 2: fruits = ['apple', "banara", "orange', 'grape', "kini']
		frict: = ["gogle", "Banas", "Graqe", "grape", "List"] for forti Sentitt: print(fruit)
		Syntax:
		function_name(arguments)
Function Call	A function call is the act of executing the code within the function using the provided arguments.	Example:
		greet('Alice')
		Systax:
		variables := variable3
		Example 1: 5 >= 5 and 9 >= 5
		5 >= 5 and 9 >= 5
Greater Than or Equal To(>=)	Chechs if the value of variablet is greater than or equal to variable?.	
		neturns True
		Example 2:
		quantity = 306 solitous = 306 squartity >= eldinous
		nobams Truc
		Systax:
		variables > variable2
		Example 1: 9 > 6
Greater Than(>)	Checks if the value of variables is greater than variable2.	returns True
		Example 2: age = 20
		Apr - 26 mc_upr - 25 Apr - mac_upr
		notherns False
If Statement	Executes code block 'if' the condition is 'True'.	Symtax:  if condition: Woode block for if statement
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1		Example
		f emperature . lik.
		System:
		of conditions:  **Constraints in those  **Constraints
M-Ehd-Else	Stancies the first and block if condition I is Time', otherwise checks condition I, and so on. If no condition is 'Time', the clear block is executed.	Example:  score = 80 = Example score  score = 80 = Example score  score = 70 = Example score  score = 70 = Example score
		THE PROPERTY OF THE PROPERTY O
		Systam: if condition: # Cade, if condition is True slam: # Cade, if condition is False    Cade   Cade   Cade   Cade   Cade
If-Else Statement	Encourse the first ends block if the condition is "Tore", otherwise the second block.	Example:
		if app in the  print("man'ry an adult.")  sless  print("man're not an adult yet.")
		System: uscialists co-varianisa
		Example 1: See S and 3 on S
Loss Than or Equal To(<=)	Checks if the value of variable is less than or equal to variable?.	
		sature True Example 2:  \$120 \tau_2 30
		tile + 30 g tile t e me_tile tilet c me_tile
		Antonia Triaci
		variables c variabled
		Example 1:
Loss Thun(+)	Checks of the value of variable is in two them not shift.	
		natures Tree Example 2:  Example 2:  pactic pactic paction = 65  pactic pactic paction = 65  pactic pactic paction = 65
		save c pasting_save
		nature Tree Speaker
		System:
		Decample 1: for man for recogn(x, n): if man = 1: print(man)
Loop Controls	bends' each the loop promatershy, 'continue' shipe the root of the current intention and moves to the next installan.	
		Example 2:  for one to ramp(i, d):  if na = 1:  continue print(nu)
		hunci (rem)
		Sponse: our sprinkle
		Exemple
NOT	Raters Trac if wealths in Plate', and vice verse.	Example: Inicided - False print(out inicided)
		softens Tree if the variable in False (i.e., unlocked).
		Symmat: variables I+ variables
		Example
		3 - 32 5 - 32 5 - 5
Not Equal(?=)	Charles of two values are not equal.	
		steem True Example 2:
		Example 2: counts 6 count 1 = 0
		ntens False

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		Systax: ubject_name = ClassRame(arguments)	
Object Creation	Contain an instance of a Class (object) using the class constructor.	Example: persons = Person("Allice", 26)	
		Systa: ctatements or statements	
OR	Returns 'True' if either entermont! or entermont! (or both) see 'True'. Otherwise, naturns 'Trabe'.	Example:  "Namewill Party Indistion"  frame - 12 grade 11 or grade 12	
		ndurm True Syntax:	
		ramp(ctay) ramp(ctart, ctay) ramp(ctart, ctay, ctay, ctay)	
range()	Generates a supence of numbers within a specified range.		
		Example: raspe(5) #generates a sequence of integers from 8 to 6. raspe(2, 30) #generates a sequence of integer from 2 to 6. raspe(2, 31) *generates do sequence of integer from 2 to 6. raspe(2, 31) *generates do director from 2 to 8.	
		Spetat: return value	
		return value	
Return Statement	Return' is a keyword used to send a value back from a function to its coller.	Example:	
		of add(s, b): remme a = b result = add(s, b)	
		Svetac:	
		try: # Code that might raise an exception except Exception/ppe: # Code to handle the exception	
Try-Except Block	This is execute the code in the try block. If an exception of the specified type occurs, the code in the except block is executed.	Example:  ***********************************	
		prior("levalid input. Please etter a valid number.")	
		Systax:	
		ty: I doe that sight state a mangation except sampstonippe; four to those the mangation; else: # Code to warcito if no warspilen occurs	
Try-Except with Else Block	Code in the "left" block is executed if no exception occurs in the try block.	Example:  try:  set(single-fate a number: "))  set(stitution: ");  set(stitution: ");	
		'one = indipop('Gene a namber' ')) empt "Namberous' pe (mt) 'manist (oper, Names ester a valid namber') print('van estered'', man)	
		System: Typ: Close that sight ratio as exception except Typ: Close that sight ratio as exception except Tability: Close that shape execute Tability: Close t	
		TORSING: # Gode That alongs executed	
Try-Except with Finally Block	Code in the 'family' blood abveryor recentson, regardless of behalves an exception occurred.	Example	
		TY:  (iii = upon("data.txt", "r")  data : (iii.r.mail)  annet filiacheadrore  (filiacheadrore)  (filiacheadrore)  (filiacheadrore)  (filiacheadrore)  (filiacheadrore)	
		file.class()	
		Systax:	
While Leap		while condition: # Code to repeat	
		Exemple	
	A while loss proposately canotes a block of code as long as a question condition remains "Trac".	court - 8 white founder 4 % print(court) court + 1	
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