2/1000/17	Pathon Pro	gramming Date Rage STUDY BUDDIES				
(i) #	Morodan BASTOS					
W #	Variables & Moths					
#	variables					
	>>> (varnam) = < value	>				
	Gn >>> x = 5					
	•					
#	# Naming					
	big Foot = 4 (Upper Can, NO spaces) lower care					
	towercase	of spaces				
#	nthesis, ** power, % remainder					
#	int & float	Colores Colores				
integer = 0,15,20						
	float = 2,3,6,	400,7.0				
#	float()	# Other functions				
	float (3) > 3.0	abs()				
	float (3)/2 -> 1.5	Sin(), cos(), floor()				
	flout (3/2) -> 1.0	ceil() pow()				
- 11	int ()	Ex pow() = power(ax				
#	int()	etc.				
	$\frac{int(3.0) \rightarrow 3}{int(3.0)/2 \rightarrow 1}$					
	(3-7)					
		402 Talentine				

STUDY BUDDIES Strings, Lists, tuples & Dictionaries # strings n = 'Hello' } Combining Strings Use 't' to combine hero whings together n = " Hello" +"" world" >>> y >> " Hello World ' 11 output Combining numbers + strings Str(): use to convert TO a STRING x = "Hello" 4 = x + str(z) -> Hello10 # Special characters placing numbers values within strings Syntax; "%d" % NUM = Subhitute INTEGER y = "Hello Y.d" %Z -> Hello 10 Similarly, "% f" % NUM = sublitute float B1 Z=10 y = "Hello Y.f"% Z → Hello 10.000000 .. "Y. . 3 f " "NUN = Substitute Cut Off FLOAT

En y="Hello 1.0.3f" 1.Z -> Hello 10.000

Date / Page STUDY BUDDIES

026

special characters " |n" = newline character

" | t" = TAB character

Keyword 'IN' used to CHECK if a value is written another value

En "Hello" in "Hello Wesld" 40/p Tru/false

[] [LISTS] its like vertors in c++

x = []

[n x = ["Hello", 4, 2.2]

Fun (CTIONS) append (VALUE): Adds value to end of hist-

En n= ["Hello", 4, 2.2]

x. append (5)

>>> x -> ['Hello', 4,2,2,5]

(insert (location, VALUE): insert value at a location

a 2 = ["H", 4,2,2,5] 2 insert (1, 3.14)

>>> x -> [4, 4,3,2,5 [14,3.14, 4,2.2,5]

	_	_	-	-	-	-	-	-	ėn,
S	T		n	V	D	11	n	n	1
1 3		1.2	1.3			1.5	2.3	1.3	4

	STUDY BUDDIES
(3)	pop (location): remove and return the
	pop (location): remove and return the value at the location
	0 1 2 3 - 4
	@ x= ['H', 3.14, 4,2.2,5]
	$n \cdot pop(0)$
	>>> x -> ['H', 4, 2.2, 5]
4	cen (string or list): refuse the total number of items within a string or list, short
	of items within a string or list, short
	for length.
	En n= ["H", 4, 2, 2, 5]
	A section of the sect
	$len(x) \rightarrow 4$
- 4	200 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4	>>> ben ("Hello") -> 5
8	1001 Colo de Consella Clara to a Cat
(3)	list (ifem): Convert ifem to a list
	En #= list ("Hello")
	0
	>>> y => ['H', 'e', 'L', 'L', 'O']
E	More 'IN' Stuffs.
	En y = ["Hello"] - F
	>>> y -> ['H', 'e', 'l', '0']
	>>> 's' in y -> false

里

Date____ STUDY BUDDIES

TUPLES ()

Just like lists but UNADJUSTABLE

En ne add or delete

>>> n = (" Hello", 4, 5)

Tuples Vs. Lists #

more memory! Takes more

efficientmemory

cannot be adjusted; Adjustable

Dectionaries {}

Used for binding KEYS to VALUES

(i.e just like a phone book!)

61 >>> sam = {} >>> Sam [" Name"] = " Rajis"

>>> sam [" Age"] = 27

{ 'Name': 'Rajiv', 'Age': 27 }

	Date 1 1
	Date
	STUDY BUDDIES
#	Retrieving the values in dictionary
	olictionary [key]: GET and SET the value
2.76	del dict [key]: DELETE a voilin/key pair
	GL >>) sam [" Name"] -> 'Rajiv'
	C ->> 1 2 (1]
	or >>> del som ['Age'] >>> som → ['Name' : 'Rajir']
	>11 Sam > [Name : Roger]
	EXERCISE-1
	Maria de la maria della maria
(I)	a=sh(int(2:23) + float(14)) + "tomatoes"
	a = 22 16.0 tomates
(2)	"ham Ham". upper() HAM HAM"
(3)	"HELLO world". Lower() hello world
4	a b = "I am Rajiv"
	a) b. split() {:i', 'am', 'rajiv']
	b) b. split ("m") ['i'a' 'rajiv']
	a) b. split() fii', 'am', 'rajiv'] b) b. split("m") ['ia', 'rajiv'] c) b. join(a) tai li am rajiv6i am rajiv
6	
(5)	"int: 1.d, float 1.0.5f" 1. (-14.4, 55.2)
(6)	int: 14, float 55.20000
0	L=[1,6,7,26,0,3,4,5]
	L[:] [1,6,7,26,0,3,4,5] L[:2] [1,6]
	1 [, , ,]
	(I, F, 0, 4)
	[6,26,3,5]

	Pa	ge		
		TUDY BUDDIES		
	EMERCISE -2	140 8		
(1)	L = [1,2,3]			
	2 = [5,6,6]			
	x = ?2?			
	y = [1,2,3,1,5,2,1,3]			
(2)				
	Z = list (set (y))			
	Z = ??			
(3)	my Dict = {14: 'Ham', 20: 'sai	ndwich ?		
	my Dict . Keys ()			
	myDict. Values ()			
	len (my Dict)			
(3)	C 1010 1 01 1 101	2//		
ري	Conditionals: if, else, elif,	времен, ехануль		
#	IF = if (condition is true):	>		
	IF = if (condition is true): do this!			
		Contract to		
	En (6 (5)2): print 'True'			
	print / me			
#	ELSE	100		
	meet-phior condional	"		
		A Y F		
	En if (572):			
	else: print 'false'			
	print false			

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	STUDY BUDDIES
#	
#_	ELIF (i'e else if)
	- Comes AFTER 'if' Statement - Sets up another conditional
	if (···);
	• • • • •
	elif ():
	a. 1.
	else;

	En if (a>b):
	print'aisbig'
	print'aisbig' elif(b)a):
	print'b is big'
	else:
	pn'nt'a equals to b'
CXC	(3) Conditionals: if, else, elit, operand
#	comparison Operators
2	<, <= , 7, 7= , == , l=
#	'AND'
	- combines two conditionals
	- Only True if BOTH conclitions are true
	En if (775) and (547):
	print 'True!
24-	'08'
#	
	Et No need 1