Module 2: Python Fundamentals

Python Comments:

Comments are any text to the right of # symbol and is mainly useful as notes for the reader of the program.

Comments explain:

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- ☐ Important Decisions
- ☐ Important Details
- ☐ Problems you're trying to solve

Python Keywords:

Python uses keywords to recognize the structure of the program and hence they cannot be used for any other purpose.

and	as^b	assert ^c	break			
class	continue	def	del			
elif	else	except	$exec^d$			
finally	for	from	global			
if	import	in	is			
lambda	nonlocale	not	or			
pass	${\sf print}^{\sf d}$	raise	return			
try	while	${\tt with}^{b}$	yield ^f			
pass	print ^d	raise	return			

None became a constant in Python 2.4; None, True, False became keywords in version 3.0.

- b. New in Python 2.6.
- c. New in Python 1.5.
- d. Became built-in function and removed as keyword in Python 3.0.
- e. New in Python 3.0.
- f. New in Python 2.3.

Identifier:

Identifier is a name given to programming elements like variables, functions, strings, etc.

Identifier Rules:

Ш	Name can contain any combinations of lette	ers, _ and digits
	Name cannot begin with digit.	

- ☐ Names are case sensitive.
- Inames are case sensitive.
- ☐ Keywords cannot be used identifiers.

Data Types:

Python has following data types:

Numbers - int, float String - str

Boolean - bool List - list

Tuple - tuple Set - set

Dictionary – dict

Note 1: Python does not have char datatype

Note 2: Python does not support any constant declaration

Module 2: Python Fundamentals

Q1) you develop a python application for your company. You want to add notes to your code so other team members will understand it. What should you do? **Options:**

- A. Place the notes after the # sign on any line
- B. Place the notes after the last line of code separated by a blank line
- C. Place the notes before the first line of code separated by a blank line
- D. Place the notes inside of parentheses on any time

Solution:

Q2) You create a function to calculate the power of a number by using Python Practice Test. You need to ensure that the function is documented with comments.

You create the following code. Line numbers are included for reference only.

01 # The calc_power function calculates exponents

02 # x is the base

03 # y is the exponent

04 # The value of x raised to the y power is returned

05 def calc_power(x, y):

06 comment = "#Return the value"

07 return $x^*y \#$ raise x to the y power

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Options		Yes	No	
Lines 01 through 04 will be ignored for	Lines 01 through 04 will be ignored for syntax checking.			
The pound sign (#) is optional for lines	The pound sign (#) is optional for lines 02 and 03.			
The string in line 06 will be interprete	d as a comment.	0	0	
Line 07 contains an inline comment.		0	0	
Q3) Woodgrove Bank is migrating their legacy bank transaction code to Python Practice Test. You have been hired to document the migrated code. Which documentation syntax is correct? Options: A. Returns the current balance of the bank account def get_balance(): return balance B. def get_balance(): /*Returns the current balance of the bank account*/ return balance C. //Returns the current balance of the bank account def get_balance(): return balance D. def get_balance(): #Returns the current balance of the bank account				
return balance Solution:				
Q4) All keywords in Python are in Options: a) lower case c) Capitalized Solution:	b) UPPER CA		ove	
Q5) Which of the following only conta Options: A. try & catch C. while & do Solution:	ins keywords? B. and, or & D. if, elif , e			
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	Q6) Which of the following does not contain keywords?							
	Optio		Tollowing a	oes not contain	n keywo	orus?		
	Орти	A. True & F	alse		R try	, except &	finally	
		C. is, not &			- AND 10 TO	, except a zak, contin	20	
	Solut		OI .		U. DI e	suk, Comm	ue a exii	
	Cold							_
	Q7)	Which of the	following is	s invalid identit	fier rul	es? Select	all that apply.	
	Optio						117	
		A. Name ca	n contain \$.			B. Name	can begin with digit.	
		C. Keyword	cannot be u	sed as identifi	iers.	D. Names	are case sensitive	
	Solut	tion:					7 3	
2							707	
			following is	s an invalid var	iable?	. ~		
	Optio					1/2		
		a) my_strin	g_1		(50)	_string		
	_ 121	c) repeat			q) [—]	1		
	Solut		1. 6.1	. W .		7 /		
	386	What is the r		z following:	5			
	A)	type(+1E	10)	1//	5			
		Options:	1) int	2) float		3) str	4)bool	
	B)	type(5.0)						
		Options:	1) int	2) float		3) str	4)bool	
	C)	type("Tru	e")	11.				
	90 5 0	Options:	1) int	2) float		3) str	4)bool	
	D)	type(False				-,		
	U)	Options:	1) int	2) float		3) str	4)bool	
		Ортюна.	1) 1111	ZJIIOUI		3)311	+)5001	
	Q10)	You are writ	ina a Pythor	Program The	progra	ım collects	customer data and	
							handles the data	
	. 10	N //		in the databas			manaios mo dara	
		age = 2;		minor = Fa				
l		name = "Co	ntoso";	weight = 1		zip	= "81000"	
_	What are the data types of the above declaration?							
	Options:							
				B. int, bool, str, double and char				
	C. int, boolean, string, float and int			D. int, bool, str, float and str				
	Solut	tion:	N.S					
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