

COME103 / CENG111 Computer Programming I Lab - 1 10 October 2019

1. TRUE / FALSE QUESTIONS

_Pro	ogrammers must be carefu	ıl not to make syntax errors v	vhen writing pseudoc	ode programs.
_In a	a math expression, multip	lication and division take place	ce before addition and	d subtraction.
_If y	you print a variable that ha	as not been assigned a value,	the number 0 will be	displayed.
_A f	flowchart is a diagram that	graphically depicts the steps	that take place in a C	Computer program.
•	ograms typically perform t d output is produced.	hree steps: input is received,	some process is perfo	ormed on the input,
In I	•	are always evaluated from le	ft to right, no matter	what the operators
Co	omments in Python begin v	vith the # character.		
2.	COMPLETION QUESTION	<u>DNS:</u> Fill in the blanks by us	sing the appropriate	e words given belo
2.		· · · · · · · · · · · · · · · · · · ·		e words given belo
2.	concatenation	DNS: Fill in the blanks by us modulus/mod	sing the appropriate	e words given belo
2.		· · · · · · · · · · · · · · · · · · ·		e words given belo
	concatenation operands	modulus/mod	variable comments	
a)	concatenation operands are notes	modulus/mod escape	variable comments ent lines or section	s of a program.
a) b)	concatenation operands are notes The % symbol is the re	modulus/mod escape of explanation that docum	variable comments ent lines or section own as the	s of a program. operator.
a) b)	concatenation operands are notes The % symbol is the re	modulus/mod escape of explanation that docum mainder operator, also know	variable comments ent lines or section own as the	s of a programoperator.
a) b) c)	concatenation operands are notes The % symbol is the re A(n) chara appearing inside a strice In the expression 12.45	modulus/mod escape of explanation that docum mainder operator, also know	variable comments ent lines or section own as the that is preceded wit	s of a program operator. th a backslash (\),
a) b) c) d)	concatenation operands are notes The % symbol is the re A(n) chara appearing inside a strict In the expression 12.45	modulus/mod escape of explanation that docum mainder operator, also know acter is a special character ng literal.	variable comments ent lines or section own as the that is preceded wit	s of a program operator. th a backslash (\), symbol are the



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3. ALGORITHM WORKBENCH QUESTIONS

- a) Write Python code that prompts the user to enter his or her age and assigns the user's input to an integer variable named age.
- b) Write Python code that prompts the user to enter his or her favorite color and assigns the user's input to a variable named color.
- c) Write a Python statement that assigns the product of 10 and 15 to the variable product.
- d) What would the following display?

```
a = 5
b = 2
c = 3
result = a + b * c
print(result)
```

e) What will the following statement display?

```
print('X\t0\tX\n0\tX\t0\nX\t0\tX\n')
```

MULTIPLE CHOICE QUESTIONS

- **4.** Suppose the following statement is in a program: price = 99.0. After this statement executes, the price variable will reference a value of which data type?
- a) int
- b) float
- c) currency
- d) str
- 5. Which built-in function can be used to convert an int value to a float?
- a) int_to_float()
- **b)** float()
- c) convert()
- **d)** int()
- **6.** Which of the following statements will cause an error?
- **a)** x = 17
- **b)** 17 = x
- **c)** x = 99999
- **d)** x = '17'



a) //

7. This operator performs integer division.

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b) c) d)	**
a) b) c)	A(n) is a set of well-defined logical steps that must be taken to perform a task. logarithm plan of action logic schedule algorithm
9.	PROGRAMS A customer in a store is purchasing five items. Write a program that asks for the price of each item, then displays the subtotal of the sale, the amount of sales tax, and the total. Assume the sales tax is 7 percent.
	Assuming there are no accidents or delays, the distance that a car travels down the interstate can be calculated with the following formula: distance = speed x time A car is traveling at 70 miles per hour. Write a program that displays the following: • The distance the car will travel in 6 hours • The distance the car will travel in 10 hours • The distance the car will travel in 15 hours
	Write a program that asks the user for the number of males and the number of females registered in a class. The program should display the percentage of males and females in the class.
	<u>Hint:</u> Suppose there are 8 males and 12 females in a class. There are 20 students in the class. The percentage of males can be calculated as $8 \div 20 = 0.4$, or 40%. The percentage

of females can be calculated as $12 \div 20 = 0.6$, or 60%.