## 1. TRUE / FALSE QUESTIONS

 Py	thon allows programmers to break a statement into multiple lines.
	thon formats all floating-point numbers to two decimal places when outputting with the ${\tt print}$ tement.
Th	e \t escape character causes the output to skip over to the next horizontal tab.
 In	Python, the first character of a variable name cannot be a number.
	e turtle.size(width, height) command is used to specify a size for the graphics ndow.
2.	COMPLETION QUESTIONS: Fill in the blanks.
a)	The specifier is a special set of characters that specify how a value should
	be formatted.
b)	When applying the $.3f$ formatting specifier to the number $76.15854$ , the result is
c)	Python uses to categorize values in memory.
d)	The statement is used to set the window's background color.
3.	ALGORITHM WORKBENCH QUESTIONS
a)	Assume the variable sales references a float value. Write a statement that displays the
	value rounded to two decimal points.
b)	Write a turtle graphics statement that draws a circle with a radius of 75 pixels.
c)	Write the turtle graphics statements to draw a square that is 100 pixels wide on each
	side and filled with the color blue.
	MULTIPLE CHOICE QUESTIONS
4.	The Python turtle is initially positioned in the of a graphics window and it first appears, by default, to be heading
_	center, up
	top left corner, east
c)	bottom left corner, down center, east
u,	center, east



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а	Which mathematical operator is used to raise 5 to the second power in Python?		
	) ** 		
	) ^		
d	) ~		
6.	In a print statement, you can set the argument to a space or empty string to		
-	stop the output from advancing to a new line.		
a)	stop		
b)	end		
c)	separator		
d)	newline		
_			
/.	After the execution of the following statement, the variable sold will reference the		
	numeric literal value as (n) data type.		
	sold = 256.752		
-	Int		
·	Float		
•	Str		
d)	Currency		
8.	What is the output of the following print statement?		
	print 'I\'m ready to begin'		
a)	Im ready to begin		
b)	I\'m ready to begin		
c)	I'm ready to begin		
d)	'I\'m ready to begin'		
9	Which of the following will display 20%?		
	<pre>print(format(20, '.0%')) <enter></enter></pre>		
-	<pre>print(format(0.2, '.0%')) <enter></enter></pre>		
-	print(format(0.2 * 100, '.0%')) <enter></enter>		
uj	<pre>print(format(0.2, '%')) <enter></enter></pre>		
10	. After the execution of the following statement, the variable price will reference the		
	value		
_ \	<pre>price = int(68.549)</pre>		
-	68		
	69		
-	68.55		
d)	68.6		



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**11.** What is the output of the following command, given that value1 = 2.0 and

- **a)** 24
- b) value1 \* value2
- **c)** 24.0
- **d)** 2.0 \* 12

### **PROGRAMS**

**12.** A car's miles-per-gallon (MPG) can be calculated with the following formula:

Write a program that asks the user for the number of miles driven and the gallons of gas used. It should calculate the car's MPG and display the result.

**13.** Body mass index (BMI) is an indirect measure of a person's body fat. In SI units (metric system) BMI is defined as the weight in kilograms divided by height in meters squared

BMI = (weight (kg) / [height (m)]
$$^2$$
).

For adults, an ideal BMI is between 18.5 and 24.9. A person with a BMI over 24.9 is considered overweight. A person with a BMI under 18.5 is considered underweight.

Write a complete Python program that reads the weight of a person from standard input (keyboard) and height of a person then prints the BMI to standard output (screen).

**14.** Use the turtle graphics library and write a program that reproduce the following object shown in the figure. You may choose size of the square shape as 200 pixel and radii of the circles as 50 pixels.

