Problem Set 1

D	Oue date: 10/18	Name:	
G	Group Members:		
Т	his problem set is based on Lecture 1 (1	0/4), and textbook chapters 1 &	2.
<u>P</u>	art 1: Write the Output		
	or each of the following, write the output Illowing line(s) of code in the Python inte		nning each of the
1.	>>> x = 10 >>> x + 1		
2.	>>> y = "hello" >>> y + "!"		
3.	>>> "three" * 3		
4.	>>> 3 ** 2		
5.	>>> type(3)		

6.	>>> type("3")
7.	>>> 1digit = 8
<u>P</u>	art 2: Paragraph Response
Fo	or the following questions, write a few sentences (between 1-5) as a response.
8.	In your own words, what is Python ? (Hint: use any relevant vocabulary terms from the reading and lecture slides)
9.	What are the three main data types used in Python? Include examples of each.

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Part 3: Understanding Code

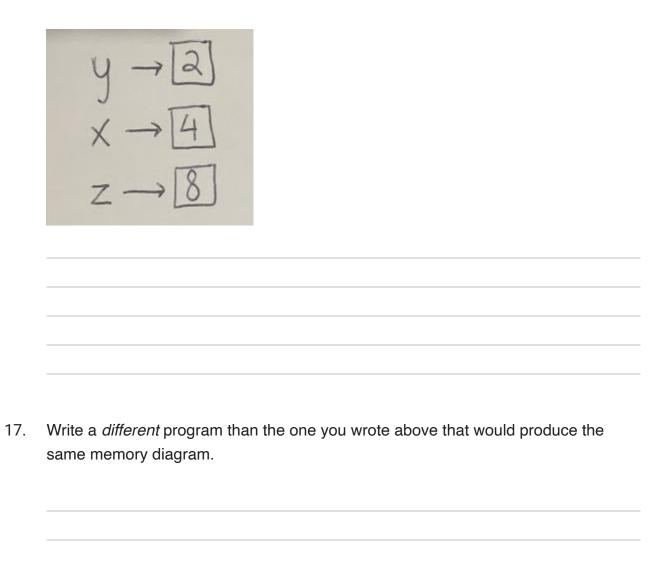
The following **3 questions** refer to the following code:

```
num1 = 10
num2 = 3.6
animal = "Elephants"
diff = num1 - num2
sentence = animal + " are mammals."
```

13.	What is the data type of the variable <i>diff</i> after executing the code above?
	Mark only one oval.
	int
	float
	String
14.	What is the value of the variable <i>sentence</i> after executing the code?
15.	Draw a memory model to represent the state of memory after executing the code.
	(Feel free to draw on a separate sheet of paper and attach, just make sure to write your name)

Part 2: Code Writing Challenge

16.	Write a program that would produce the following memory diagram (hint: there is
	more than one correct answer!)



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