

Name:

Date:

Class:

## What is Python? Post-Assessment **Answer Key**

### Directions

Answer the following questions the best you can. This is a graded assignment.

1. What is the difference between a class and an object?

An object is a set of data in a computer's memory that may be manipulated while a class is a collection of objects that share the same variables/methods

2. What are the syntax rules used to write variables in Python?

The name of the variable must appear to the left of the assignment operator "=" and the value the variable is being set to must appear to the right of the assignment operator

Variables typically are written in camel case or snake case

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3. How would you use input statements, print statements, and if-else statements to write code that will take an input of two primary colors (yellow, blue, red) and output to the user the color that will result from mixing them (green, purple, orange)?

```
def secondary_color(color1, color2):  
    if (color1 == "yellow"):  
        if (color2 == "blue"): print("green")  
        else: print("orange")  
    elif (color1 == "blue"):  
        if (color2 == "yellow"): print("green")  
        else: print("purple")  
    else:  
        if (color2 == "yellow"): print("orange")  
        else: print("purple")
```