Your Name:

Lab#2: Week of September 14,2020

Due by midnight on your lab day.

Question 1. Each of the following expressions evaluates to some value. For each one, give the resulting value and its type (as one of `int`, `float`, or `str`).

		Value	Type
(a).	`4`	_____	_____
(b).	`-4.5`	_____	_____
(c).	`"6.6"`	_____	_____
(d).	`1 + 3.0`	_____	_____
(e).	`"cup"+ "cake"`	_____	_____

Question 2. Circle the names which correspond to valid variable names in Processing

`void`	`building-code`	`PORTFOLIO`	`int`
`h`	height	`1height`	`@letter`
`if`	12	`num1`	`name`
`total_code`	`numIngredients`	`Amount#`	`Unicorn`

Question 3. The following code is supposed to create a gradient of colors based on the mouse position but all the circles are black! Fix the code so the colors look correct! (**Hint**: Print the values of green and blue to the console.)

```
void setup() {
  size(500,500);
  background(255);
}

void draw() {
  float red = 0;
  float green = (mouseY / 500) * 165;
  float blue = (mouseX / 500) * 165;
  fill(red, green, blue);
  ellipse(mouseX, mouseY, 50, 50);
}
```

Question 4. Use the `arc` function to draw either a lemon/orange/lime/watermellon wedge. Submit your program on dropbox (no need to write out your program here).
Requirements: Use at least one 180 degree arc for the rind and 3 equal arcs for the interior fruit.) Define a variable to determine the colors of the wedge.