

Name: _____ **Section:** 1 2 3 4

1 = Mutchler, 1st-2nd periods. **2** = Mutchler, 3rd-4th periods. **3** = Anderson, 7th-8th periods. **4** = Anderson, 9th-10th periods.

Use this quiz to help make sure you understand the videos/reading. **Answer all questions.** Make additional notes as desired. **Not sure of an answer?** Ask your instructor to explain in class and revise as needed then. **Please print two-sided.**

Throughout, where you are asked to “circle your choice”, you can underline or circle it (whichever you prefer).

Video: Simple Scrum [7:16 minutes]

1. In your project, you will use a simple version of the Agile development process called: _____.
[Hint: Begins with an **S** and rhymes with **Thumb**.]
2. In the context of the *Pig-and-Chicken-Open-A-Restaurant* joke, there are no chickens in Scrum, just pigs, because chickens are not _____ to producing a high-quality product.
3. For each of the following, indicate whether it is a **feature** of a software product or a **task** that might occur in implementing the product:

The robot can follow a black curvy line.	Task	Feature	(circle your choice)
Implement the <i>LineFollowing</i> class.	Task	Feature	(circle your choice)
4. Each Sprint begins with a Sprint **Planning** Meeting. What does that meeting determine?
5. How often does the Development Team hold a **Scrum Meeting**? (circle your choice)
 - a. Once an hour.
 - b. Once a workday.
 - c. Once a week.
 - d. Once a month.
 - e. Once in a blue moon.
6. At the end of each Sprint, the team produces which of the following? (circle your choice)
 - a. Code that implements the functions and classes that were planned for the Sprint.
 - b. Code that implements the features that were planned for the Sprint.
7. In your Capstone Project for CSSE 120:
 - a. How many Sprints will your team run? _____
 - b. Each Sprint will take roughly how many days? _____

Video: Tkinter, Part 1 [7:16 minutes]

8. Consider the code snippet shown to the right. When *main* runs:

a. About how many seconds will the program take to execute the **first** of the two lines inside *main*, that is, the statement `window = tkinter.Tk()` ?
(circle your choice)

- Less than a second
- More than a second but less than a minute
- More than a minute but less than an hour
- More than an hour

b. About how many seconds will the program take to execute the **second** of the two lines inside *main*, that is, the statement `window.mainloop()` ? (circle your choice)

- Less than a second
- More than a second but less than a minute
- More than a minute but less than an hour
- More than an hour

9. Consider the code snippet to the right. If we commented out the two lines that invoke the **grid** method, what would be different when we run the revised code?

```
def main():  
    window = tkinter.Tk()  
  
    frame = ttk.Frame(window)  
    frame.grid()  
  
    button = ttk.Button(frame, text='Hello')  
    button.grid()  
  
    window.mainloop()
```

```
def main():  
    window = tkinter.Tk()  
    window.mainloop()
```

10. Implement the following function, per its specification.

```
def show_ok(window):  
    """  
    Displays a ttk.Frame on the given window (tkinter.Tk object).  
    On that frame, displays a ttk.Button that has 'OK' on it.  
    Precondition: The argument is a tkinter.Tk object.  
    """
```

11. Implement the following function, per its specification, assuming that the function he function defined to the right.

```
def show_ok(button, robot):  
    """  
    Ensures that whenever the user presses the given ttk.Button,  
    the program makes the given robot stop.  
    Preconditions: The first argument is a ttk.Button  
                  and the second argument is a create.Create object.  
    """
```