| Yo | ur name: SOLUT | ON | | | |
|--|--|--|-----|--|--|
| | If you don't k | now the answer to a question, ask your instructor for help. | | | |
| 1. | At each session, you find what to do BEFORE the session at (circle your choice): | | | | |
| | Moodle | www.rose-hulman.edu/class/csse/csse120/202320 (in the Preparation for the session) | | | |
| 2. You use Moodle primarily for which of the following? (Check all that apply) | | | | | |
| | Taking quizzes associated with the Preparation Videos/Reading. | | | | |
| | Turning in work. | | | | |
| | Seeing your grades. | | | | |
| 3. | ally do which of the following BEFORE the in-class session? (Check all that apply | ') | | | |
| | Watch videos (and/or do reading) and do their associated quizzes on Moodle. | | | | |
| | Do a Preparation-Sui | mmary Quiz, turn it in to Moodle, and check your own answers. | | | |
| | Get Starting Code for | the coding exercises. | | | |
| | Watch and do Follow | -Me videos, using the Starting Code for coding exercises. | | | |
| | Take notes as desired | I, especially questions to ask in class based on the Preparation materials. | | | |
| 4. | ally do which of the following DURING the in-class session? (Check all that apply | y) | | | |
| | Ask questions (and listen to classmates' questions) about the Preparation material. | | | | |
| | Do a short <i>Before-the</i> | ?-Coding Quiz. | | | |
| | | doing coding exercises, sometimes via Pair Programming, ATE one-on-one help whenever you are stuck or unsure of your answer. | | | |
| 5. | At each session, you norm | ally do which of the following AFTER the in-class session? (Check all that apply) | | | |
| | during evening office | the coding that you did not finish in class, getting help from student assistar hours, as well as from your instructor. Turn it in by doing TWO things: he details in class) and do the relevant quiz in Moodle. | nts | | |
| | Reach out for help w | ith any concepts from the session that are not clear to you. | | | |
| | Do the Preparation f | or the <i>next</i> session. | | | |
| | | | | | |

6. **True** or *False* (circle one): In a *flipped* classroom, the instructor typically spends about half of each session lecturing.

- 7. <u>True</u> or False (circle one): You get *full credit* for any serious attempt at the quizzes that are part of the Preparation for most sessions, as well as for any in-class guizzes.
- 8. When you encounter a coding exercise in a module (file) whose name has "e" for "example", as in m5e_loopy_turtles.py, you should: (Check all that apply)

Read the comments and code in the module

___ Run the module.

9. When the following statement runs (executes):

```
print("robot", 1 + 2)
```

what appears on the Console? robot 1 + 2 robot 3 "robot 3" (circle your choice)

10. When the following statement runs (executes):

```
# print("clown")
```

what appears on the Console? **clown** "**clown**" <u>nothing appears</u> (circle your choice)

- 11. <u>True</u> or **False** (circle one): When you complete a module with **TODO**'s in it, you should **commit-and-push** your work by using **Git** ~ **Commit**. Doing so even more frequently is fine.
- 12. Write a statement that would make the name **answer** refer to the number **42** as its value.

```
answer = 42
```

13. Which of the following would make the name **bob** refer to the string "alice" as its value?

```
bob = "alice" alice = "bob" bob = alice = bob (circle your choice)
```

14. Write a statement that would make the name **x** refer to the number that is the sine of the number to which the name **z** refers. (Assume that the code already includes **import** math.)

```
x = math.sin(z)
```

15. <u>True</u> or **False** (circle one): I understand the so-called "dot trick". [If not, ask your instructor to explain it!]

This quiz continues on the next page.

| 16. Write an expression that wo | uld <i>construct</i> a s | SimpleTurtle, | as defined i | n the rg (short for |
|---------------------------------|---------------------------------|---------------|--------------|----------------------------|
| rosegraphics) module, and g | ive that constructed | SimpleTurtle | the name | alpha_turtle. |

17. To *construct* a Circle, as defined in the **rg** (short for *rosegraphics*) module, you would type:

rg.Circle

followed by what punctuation symbols? _____parentheses_____

18. The videos introduced the idea of *methods* describing "who - does what - with what". In the following turtle graphics example from the video, draw arrows to indicate the "who", the "does what", and the "with what" part.

who does what with what

nadia.forward(200)

nadia is the WHO forward is the DOES WHAT 200 is the WITH WHAT

19. To *call* the method *pen_up* on the *SimpleTurtle* object whose name is *beta turtle*, you would type:

beta_turtle.pen_up (fill in the blanks)

followed by what punctuation symbol? ____parentheses____

20. Suppose that the code has constructed a *SimpleTurtle* and assigned the name mary to it.

Which of the following would set the *speed instance variable* of mary to 8? Circle one:

mary.speed(8) $\frac{\text{mary.speed} = 8}{\text{speed} = 8}$ speed = 8

21. Fill in the blanks below *very briefly* (just give the essence of the ideas -- only a few words for each):

Constructing an object causes space for the object's data to be allocated and initialized.

An object's methods are what the object can do.

An object's *instance variables* are what the object knows (i.e., what data it has).