**Exercise 1: Variables, Strings, and Data Types**

Take a look at the solutions before. No worries if it is not exactly the same. As long as the code runs as expected, you have done brilliantly!

1. Store a message in a variable, then print that message.

first\_name = "Jess"

print(first\_name)

favorite\_food = "My favorite food is tacos."

print(favorite\_food)

1. Create two variables. one with your first name and the other with your last name. Then combine (or concatenate) both variables and print the result

first\_name = "Jess"

last\_name = "Snead"

print(first\_name + last\_name)

1. Store a message in a variable, and print that message. Then change the value of your variable to a new message, and print the new message.

favorite\_food = "My favorite food is tacos."

print(favorite\_food)

favorite\_food = "My new favorite food is tamales."

print(favorite\_food)

1. Store a person’s name in a variable, and print a message to that person.

my\_cat = "Noche"

print(my\_cat + ", you will have tuna for dinner tonight.")

1. Store a person’s name in a variable, and then print that person’s name in lowercase, uppercase, and titlecase.

name = "jess"

print(name.title())

print(name.lower())

print(name.upper())

1. Write addition, subtraction, multiplication, and division operations that each result in the number 8. Be sure to enclose your operations in print statements to see the results.

addition = 4 + 4

subtraction = 10 - 2

multiplication = 4 \* 2

division = 16 / 2

print(addition)

print(subtraction)

print(multiplication)

print(division)

1. Store your favorite number in a variable. Then, using that variable, create a message that reveals your favorite number. Print that message.

favorite\_num = 3

print("My favorite number is " + str(favorite\_num))

**Stretch and Challenge**

* Use an f-string to print out a message with a variable.

my\_cat = "Noche"

print(f"my cat's name is {my\_cat}")

* Use multiple variables in one string

first\_cat = "Noche"

second\_cat = "Weasley"

print(f"I have two cats, their names are {first\_cat} and {second\_cat}.")