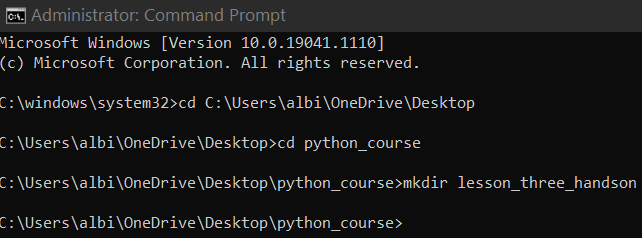
## Setup



## Requirements

This hands-on is broken into three parts. Please complete each part within your main.py file.

## Part 1

1. Create a list of the following first names: Kurt, David, Katherine.
2. The variable name for the above list should be list\_of\_names.
3. Use a for loop to loop through each name in the list and print the following question: Where is \_\_\_\_\_ today?
4. Each name should replace the blank within the question.
5. The output should look like the following:

Where is Kurt today?

Where is David today?

Where is Katherine today?

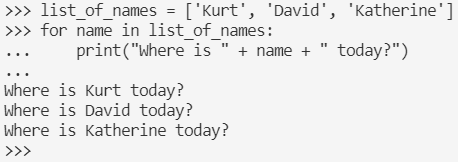
Python commands:

list\_of\_names = ['Kurt', 'David', 'Katherine']

for name in list\_of\_names:

print("Where is " + name + " today?")

Results:



## Part 2

1. Create three separate lists with the following variable names: my\_favorite\_cars, my\_favorite\_flowers, my\_favorite\_animals

my\_favorite\_cars should include 3 different cars

my\_favorite\_flowers should include 4 different flowers

my\_favorite\_animals should include 5 different animals

1. Concatenate the above three lists into a single list named my\_favorite\_things.
2. Use a for loop to iterate over each element of the my\_favorite\_things combined list. Print out each item with an even length.

The output should show only items in the my\_favorite\_things list that have an even number of letters.

Python Commands:

my\_favorite\_cars = ['2021 Tesla Model 3', '2021 Toyota Corolla', '2021 Nissan Kicks']

my\_favorite\_flowers = ['Sunflower', 'Rose', 'Lotus', 'Orchid']

my\_favorite\_animals = ['Hamster', 'Cat', 'Dog', 'Goldfish', 'Rabbit']

my\_favorite\_things = my\_favorite\_cars + my\_favorite\_flowers + my\_favorite\_animals

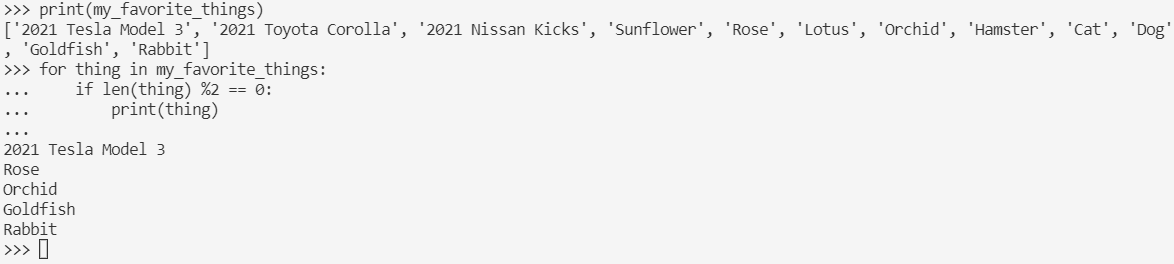
print(my\_favorite\_things)

for thing in my\_favorite\_things:

if len(thing) %2 == 0:

print(thing)

Results:



## Part 3

Finally, add to your program new code that does the following:

1. Create a list named number\_range that includes the numbers 1 – 20.
2. Loop through the list.
3. For every number that is divisible by 3 and 5, print ZipZap.
4. For every number that is divisible by 3, print Zip.
5. For every number that is divisible by 5, print Zap.
6. If the number is not divisible by any of the three, then just print the number.

Python Commands:

number\_range = list(range(1, 21))

print(number\_range)

for number in number\_range:

if number % 3 == 0 and number % 5 == 0:

print("ZipZap")

elif number % 3 == 0:

print("Zip")

elif number % 5 == 0:

print("Zap")

else:

print(number)

Results:

