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Python for Data Analytics

1. What is Python and why is it useful?

Python is a programming language, created by Guido Van Rossum.

Python is open-sourced and free to use and easy to read and understand.

Python is useful because it can work on a large database with ease and makes analyzing data from a few thousand rows to a few rows very easy. Also, it can perform complex operations. The last, Python’s code can be saved and re-run that making processes automated and a huge time saver.

1. Are the following variable names allowed in python?
   1. 1\_message No - they can’t start with number
   2. Greeting\_message Yes
   3. Message\_1 Yes
   4. First name No- Spaces are not allowed
   5. Full\_name Yes
2. Create a variable that holds the string “hello there!”

a = “hello there!”

1. Create a variable for first name, last name and an email extension. Concatenating all three together to form an email address. For example: [firstnamelastname@gmail.com](mailto:firstnamelastname@gmail.com)

first\_name = "stephanie"

last\_name = "moon"

email\_extension = "@gmail.com"

email\_address=first\_name+last\_name+email\_extension

print(email\_address)

1. Store someone you know name in a variable called name. Print their name in lower and uppercase using a method.

name = "Alice"

print(name.upper())

print(name.lower())

1. Using a variable, ask your friend if they want to hang out on the 15th of the month. For example, “Do you want to hang out on the 15th of this month?” You should have to convert the number to a string.

x=15

message = "Do you want to hang out " + str(x) + "th of this month?"

print(message)