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Python for Data Analytics

1. What is Python and why is it useful?

Python is a general purpose, interpreted, interactive, object-oriented high level programming language developed in 1989 by Guido van Rossum. It is useful for many purposes including machine learning, artificial intelligence, data analytics, research, web and app development among others.

1. Are the following variable names allowed in python?
   1. 1\_message No
   2. Greeting\_message Yes
   3. Message\_1 Yes
   4. First name No
   5. Full\_name Yes
2. Create a variable that holds the string “hello there!”

greeting= “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=”Petvy”

last\_name=”Li”

extension=”@gmail.com”

address= first\_name + last\_name + extension

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

name=”John Smith”

print(name.lower())

print(name.upper())

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.

date=15

print(“Do you want to hang out on the “ + str(date) + “th of this month?”)