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Python for Data Analytics

1. What is Python and why is it useful?

Python is an open-sourced, programming language created by Guido van Rossum in 1989 that combines both object-oriented and functional programming and is currently used by Facebook and Google. Python is extremely useful because it can work on large datasets, which makes analyzing data simple. Additionally, Python can perform complex operations, such as machine learning and web development, and its code can be saved and re-run, which can save time.

1. Are the following variable names allowed in python?
   1. 1\_message (Not allowed)
   2. Greeting\_message (Allowed)
   3. Message\_1 (Allowed)
   4. First name (Not allowed)
   5. Full\_name (Allowed)
2. Create a variable that holds the string “hello there!”

X = “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)

X = “FirstName”

Y = “LastName”

Z = “@gmail.com”

email\_address = (X + Y + Z)

print(email\_address)

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

name = “Rafael”

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

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