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Python for Data Analytics

1. What is Python and why is it useful?

**Python is a programming language, it makes coding easy to read and understand, Python is open source and free to use, Python has libraries that make it much easier to perform data analytics and visualization. Python can work easily with very large datasets. It can perform complex operations, from machine learning to web-development. Python’s code can be saved and re-run, making processes automated and a huge time saver. Python can be used to predict forecasts. Python can create dashboards showing employee performance within an organization.**

1. Are the following variable names allowed in python?
   1. 1\_message
   2. Greeting\_message
   3. Message\_1
   4. First name
2. Create a variable that holds the string “hello there!”

greeting = "hello there!"

print (greeting)

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 = "Borja"

last\_name = "DeUgarteLluc"

email = "@hotmail.com"

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

print (email\_address)

BorjaDeUgarteLluc@hotmail.com

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

name = "Eduardo Ruiz Delgado"

print (name.upper())

print (name.lower())

EDUARDO RUIZ DELGADO

eduardo ruiz delgado

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.

day = 15

question\_to\_Carlos = "Do you want to hang out on the " + str(day)+"th" + " of this month?"

print (question\_to\_Carlos)

Do you want to hang out on the 15th of this month?