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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 and it was first released in 1991. Their main aim is to make code easy to read and comprehend. It is useful because it can work on very large datasets and it allows us to analyze data with ease. Moreover, it can also perform complex operations ranging from machine learning to web development. Because of Python, processes could be automated since the code can be saved and re-run, allowing us to save a lot of time.

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!”**

message= “hello there!”

print(message)

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\_term="firstname"

second\_term="lastname"

third\_term="gmail"

fourth\_term="com"

combined= first\_term + second\_term +"@" + third\_term + "." + fourth\_term

print(combined)

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

name= “Namisha”

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 hangout on the " + str(date) + "th of the month?"

print(message)