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Python for Data Analytics

1. What is Python and why is it useful?

Python is a highly interactive, and object-oriented computer programming language. It has a massive user group because the language is widely used across the world. It was developed by Guido van Rossum in 1989. Python is useful for many reasons. Mainly, it translates highly complicated, large amounts of data in simple ways. It is used for data analysis, machine learning, web development, and more.

2. Are the following variable names allowed in python?
    a. 1_message = **NO**
        i. **Variable names cannot start with a number!**
    b. Greeting_message = **YES**
    c. Message_1 = **NO**
    d. First name = **YES**
        i. **Spaces are not allowed!**
    e. Full_name = **NO**

3. Create a variable that holds the string "hello there!"

```
h = "hello there!"
```

4. 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

```
first = "Kevin"

last = "Hart"

extension = "@gmail.com"


email = first + last + extension
```

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

```
name = "Leonardo DiCaprio"

print(name.upper())

print(name.lower())
```

6. 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.

```
friend = "joey"

print(friend.title() + ", do you want to hang out on the " +
str(15) + "th of this month?")
```