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## Python for Data Analytics

1. What is Python and why is it useful?

Python is an object oriented programming language and it is useful because it is able to work with large datasets, the code can also be saved and rerun, and it can perform complex operations.

2. Are the following variable names allowed in python?

- a. 1\_message
- b. Greeting\_message
- c. Message\_1
- d. First name
- e. Full\_name

b, c, e are allowed variable names in python

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

```
▶ message = "hello there!"  
print(message)
```

```
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: [firstname.lastname@gmail.com](mailto:firstname.lastname@gmail.com)

```
▶ first_name = "Vitoria"  
last_name = "Tai"  
email_extension = "@gmail.com"  
print(first_name+last_name+email_extension)
```

```
VitoriaTai@gmail.com
```

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

```
▶ name = "Anton"
  print(name.upper() + "\n" + name.lower())
```

☞ ANTON  
anton

+ Code + Text

6. Using a variable, ask your friend if they want to hang out on the 15<sup>th</sup> of the month. For example, "Do you want to hang out on the 15<sup>th</sup> of this month?" You should have to convert the number to a string.

```
▶ day = 15
  ask = "Do you want to hang out on the " + str(day) + "th of this month?"
  print(ask)
```

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