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Python for Data Analytics

1. What is Python and why is it useful?

Python is an object oriented high level programming language. It is useful because it can work on extremely large data sets, can perform complex operations, the code can be saved and ond rerun and it is open source, so it's free!

2. Are the following variable names allowed in python?
   a. 1_message            is not allowed, because it starts with a number.
   b. Greeting_message      is allowed.
   c. Message_1             is allowed.
   d. First name            is not allowed, because there is a space.
   e. Full_name             is allowed.

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

```
intro = "hello there!"
print (intro)
```

```
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_name = "firstname"
last_name = "lastname"
email_ext = "@gmail.com"
print (first_name + last_name + email_ext)
```

firstnamelastname@gmail.com

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

```
name = "Hanah"
print (name.upper())
print (name.lower())
```

```
HANAH
hanah
```

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.

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

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