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## Python for Data Analytics

### 1. What is Python and why is it useful?

- Python is a general purpose, interpreted, interactive, object-oriented, and high-level programming language. It is useful because it can work on very, very large datasets, performs complex operation and the code can be saved and re-run.

### 2. Are the following variable names allowed in python?

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

- No. A and D are not allowed.

### 3. Create a variable that holds the string “hello there!”

```
✓ 0s  msg="Hello there!"  
    print(msg)  
  
    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)

```
▶ #Create a variable for first name, last name and email extension  
first_name="michelle"  
last_name="orna"  
email=first_name + last_name + '@gmail.com'  
print(email)  
  
☞ michelleorna@gmail.com
```

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

```
name="Cris"  
print(name.lower())  
print(name.upper())  
  
cris  
CRIS
```

### 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.

```
date=15  
msg="Hey, do you want to hang out on the "+str(date)+"th of this month?"  
print(msg)  
  
Hey, do you want to hang out on the 15th of this month?
```

