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Python for Data Analytics

1. What is Python and why is it useful?

ANS: Python is a general purpose, interpreted, interactive, object-oriented, and high-level programming language. This is because it: Is a strong and dynamically-typed language Has every variable as an object Is focused on reliability and productivity Has a dynamic community and user group. It is useful because Python can work on very, very large datasets – with ease! It makes analyzing data – from a few thousand rows to a few million rows very easy. It can perform complex operations – from machine learning, to web development. Python's code can be saved and re-run – making processes automated and a huge time saver.

- 2. Are the following variable names allowed in python?
 - a. 1 message
 - b. Greeting message
 - c. Message 1
 - d. First name
 - e. Full name

ANS: b.c.e.

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

Ans: greeting_message = "hello there!"

print(greeting_message)

hello there!

 Create a variable for first name, last name and an email extension. Concatenating all three together to form an email address. For example: <u>firstnamelastname@gmail.com</u>

```
first_name = "lobsang"
last_name = "dolma"
email = "@gmail.com"
full_emailid = first_name + "" + last_name + "" + email
print(full_emailid)
lobsangdoloma@gmail.com
```

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

ANS:

```
name = "jennifer fox"
```

```
print(name.upper())
print(name.lower())

JENNIFER FOX
jennifer fox
```

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.

Ans:

date = 15

```
message = "Do you want to hang out on the " + str(date) + "th of July?"

print(message)

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