

CNRI HW 2

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CNRI Week 2 Homework

1. Review lecture_2.ipynb and Python_Lecture_2_Notes.pdf as needed
2. Meet with your Python project group and come up with a list of potential topics for your Python project (3-4 ideas). Please email this list to raphael.geddert@duke.edu and miles.martinez@duke.edu, or send it over the CNRI-Interns slack channel in a private message, by classtime of week 3
3. Read the following code blocks, and in the text editor of your choice, write down the output of the code:

```
for ii in range(5):
    for jj in range(6):
        value = (ii % 3) * jj
        print(value)
```

```
list1 = [1,2,3,4,"a string", "seven", 3.01]
for item in list1:
    print(item * 2)
    if type(item) == str:
        print("This item is a string!")
    elif type(item) == int:
        print("this item is an integer!")
    else:
        print("This item is neither a string nor an integer!")
```

4. In the editor of your choice (we recommend Jupyter Notebook), do the following:
 - Print a triangle of asterisks like below using a for loop:

```
*
**
***
****
*****
*****
*****
*****
*****
*****
*****
```

5. Email raphael.geddert@duke.edu and miles.martinez@duke.edu a screenshot of steps 3 & 4, or send it over the CNRI-Interns slack channel in a private message.