

3rd Assignment of Computational Physics

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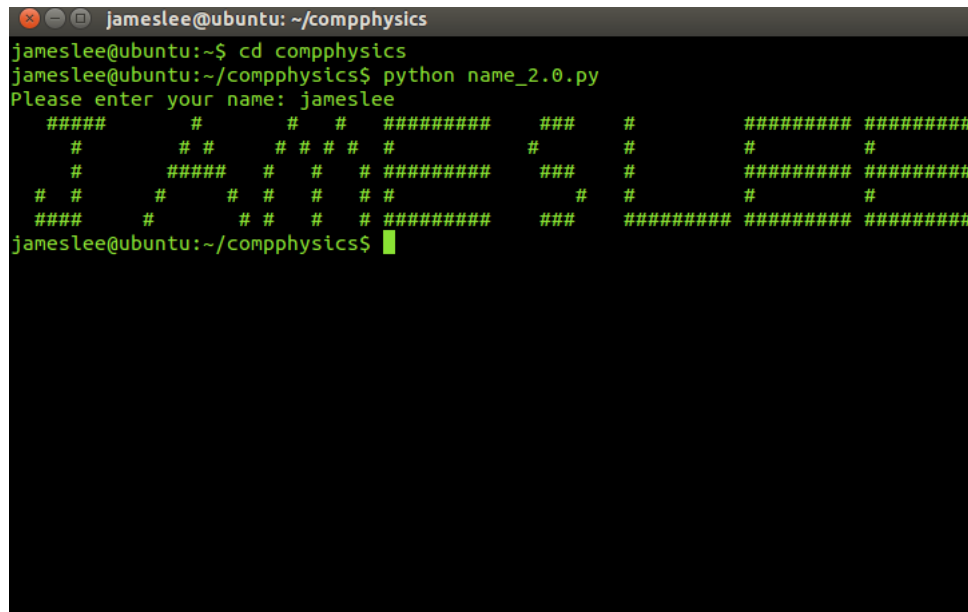
Abstract

In this report I present to you the a program that can print English using strings.

1 Main Content

1.1 Print a Name

The L1 program is able to print my name:



```
jameslee@ubuntu: ~/compphysics
jameslee@ubuntu:~$ cd compphysics
jameslee@ubuntu:~/compphysics$ python name_2.0.py
Please enter your name: jameslee
##### # # # ##### ### # #####
# # # # # # # # # # # # #
# ##### # # # ##### ### # #####
# # # # # # # # # # # # #
#### # # # # ##### ### #####
jameslee@ubuntu:~/compphysics$
```

Figure 1: Print Jameslee

1.2 Print any Consequence of Letters

The L1 program is able to print any name:

```
jameslee@ubuntu: ~/compphysics
#####  ###  ##  #  ###  #####  #####  ###  ##  #
#  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #
#####  #  #  #  #  ###  #  #####  #  #  #  #
#  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #
#####  ###  #  ###  #  ###  #####  ###  #  ##
jameslee@ubuntu:~/compphysics$ python name_2.0.py
Please enter your name: maxwell
#  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #
#  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #
#  #  #  #####  #####  #  #  #  #####  #
#  #  #  #  #  #  #  #  #  #  #  #  #  #  #
#  #  #  #  #  #  #  #  #  #  #  #  #####
jameslee@ubuntu:~/compphysics$ python name_2.0.py
Please enter your name: pauldirac
#####  #  #  #  #  #####  ###  #####  #  #####
#  #  #  #  #  #  #  #  #  #  #  #  #  #  #
#####  #####  #  #  #  #  #  #  #  #####  #
#  #  #  #  #  #  #  #  #  #  #  #  #  #  #
#  #  #  #  #####  #####  #####  ###  #  #  #  #  #####
jameslee@ubuntu:~/compphysics$ python name_2.0.py
Please enter your name: levlandau
#  #####  #  #  #  #  #  #  #  #####  #  #  #  #
#  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #
#  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #
#####  #####  #  #####  #  #  #  #####  #  #  #
jameslee@ubuntu:~/compphysics$ python name_2.0.py
Please enter your name: excited
#####  #  #  #####  ###  #####  #####  #####
#  #  #  #  #  #  #  #  #  #  #  #  #  #
#####  #####  #  #  #  #  #  #####  #  #
#  #  #  #  #  #  #  #  #  #  #  #  #  #
#####  #  #  #####  ###  #  #####  #####
jameslee@ubuntu:~/compphysics$ python name_2.0.py
Please enter your name: issacnewton
###  ###  ###  #  #####  ##  #  #####  #  #  #####  ###  ##  #
#  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #
#  ###  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #
###  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #  #
jameslee@ubuntu:~/compphysics$
```

Figure 2: Print Any Name

Acknowledgement

When tackling this assignment, I benefitted a lot from the valuable discussions with Liu Xingchen. I would like to thank him for pointing out several grammar errors I made, also, for his willingness to discuss with me.

References

- [1] Hunter J, the Matplotlib Documentation, 2016
- [2] Giordano N.J, Nakanishi H, Computational Physics, Pearson Education, 2007