

Lab 6: Banners

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Lab Section: 001

1. Problem Statement:

Create a function that printed Banners of ascii art with any word that is given. Also that could print either horizontally or vertically.

Important features:

Use a while loop for iterating through a dictionary

Use a dictionary to call ascii letters

Requirements:

Have a function takes in a string and direction to print banner:

Create two separate horizontal and vertical functions

Use a while loop

2. Planning:

For our planning, first we set up a couple of letters in the dictionary and tested them using a while loop and a defined word such as "cat" as see how it would print. After we figured out the vertical way we then moved on to the horizontal part and tried the same technique. We needed to use a while loop inside a while loop to print our vertical letters.

3. Implementation and testing:

We first implemented our plan by testing out letter by themselves without making a function and just assigning a letter to a variable. After we then assigned a word to our variable and see how it would print after we had a successful result we then made it a function.

Code running:

```
login as: rad449
rad449@linux.ceias.nau.edu's password:
Last login: Mon Oct 21 19:31:30 2019 from 172.18.225.107
rad449@corellia:~$ cd cs126/labs/lab6
rad449@corellia:~/cs126/labs/lab6$ python
Python 2.7.5 (default, Jun 11 2019, 14:33:56)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-39)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> from rad449_em2475_lab6_banners import *
>>> print_banner("CHICKEN", "horizontal")
CCCC H H IIII CCCC K K EEEE N N
C   HHHH II C   KKK E   NN N
C   HHHH II C   KKL E   N NN
CCCC H H IIII CCCC K K EEEE N N
>>> 
```

Proof of pep 8 compliance:

```
em2475@dantooine:~/csl26/labs$ pycodestyle-3 rad449_em2475_lab6_banners.py  
em2475@dantooine:~/csl26/labs$
```

4. Reflection and Refactoring:

Overall, we feel our code is made efficiently and professionally. We incorporated all of the needed requirements and did so in a way that complies with pep 8. For us, the hardest part for sure was finding out how to implement the `horizontal_print_banner` function. That was mostly because our `vertical_print_banner` function was incorrect for quite a while, but it eventually got fixed and both functions output correctly. We feel like this could have been done easier with a for loop, but we hadn't learned that yet at the time of this lab so we had to stick with the while loop.