

Week 14 - Day 3

Python Evaluation

Submission folder `submissions/<your_folder>/week_14/day_3/evaluation`

- **USAGE OF ANY INBUILT FUCTIONS IS NOT ALLOWED**
- **WRITE CLEAN CODE WITH PROPER VARIABLE NAMES**
- **BREAK INTO SMALLER FUNCTIONS IF REQUIRED**

FSD.PY.A.1

- File `email_domain.py`
- Given a valid email address find the domain name of the email
- Sample Output format

```
# For input hello@masaischool.com
masaischool.com
```

FSD.PY.A.2

- File `count_vowels.py`
- Given a string print the no. of lower case and upper case vowels seperately (a,e,i,o,u) & (A,E,I,O,U)
- Sample Output format

```
# MASAI School
lower - 2
UPPER - 3
```

FSD.PY.A.3

- File `average_diff.py`
- Given a list of numbers find the difference between the sum of even and odd indexes
- Sample Output format

```
# numbers = [1,2,3,4,5,6]
# Even Index Sum - 1 + 3 + 5 = 9
# Odd Index Sum - 2 + 4 + 6 = 12
# Diff = 9-12
-3
```

FSD.PY.A.4

- File `sets_intersection.py`
- Given three sets find the common elements in those three sets
- Sample Output format

```
# a = {"a", "b", "c", "d", "e"}
# b = {"a", "e", "f", "h", "k"}
# c = {"a", "b", "c", "z", "m"}
{"a"}
```

FSD.PY.A.5

- File `student_ranks.py`
- Given a dict of students and the marks in 3 subjects print the names in the descending order of their totals (NOTE: Assume all the totals are unique)
- Sample Output format

```
# scores = {"Thor": [1,2,3], "Ironman": [3,4,5], "Hulk": [2,3,4]}
Ironman
Hulk
Thor
```

FSD.PY.A.6

- File `brick_wall.py`
- Given the width and height print a brick wall [Full brick `|__|` (Pipe seperated by 3 underscores) Half brick `_|` or `|_` (2 underscores)]
- Sample brick wall of width four bricks and height 5 bricks

```
|__|__|__|__|
_|_|_|_|_|
|__|__|__|__|
_|_|_|_|_|
|__|__|__|__|
```

FSD.PY.A.7

- File `count_letters.py`
- Given a list of strings print the no. of lower case and upper case occurrence of each character (NOTE: Ignore Spaces)
- Sample Output format

```
# ["Masai", "School"]
M - 1
a - 2
s - 1
i - 1
S - 1
c - 1
h - 1
o - 2
l - 1
```