

For mergeyamlfiles.py:

Documentation with test cases:

- The tests were conducted using 2 to 4 files (1 per directory) with the same name.
- The path given as input was '/home/ketaki/dir1/dir2/dir3/dir4/example.yaml'.
- For the test cases, the location of files as well as contents in the files were changed.
- Everything in 'Output' is a screenshot of the program using jupyter.
- Test case 1: All keys have integer values
 - /home/ketaki/dir1/dir2/dir3/dir4/example.yaml :
size: 8
count: 2
 - /home/ketaki/dir1/dir2/dir3/example.yaml :
size: 12
color: blue
 - Output:

```
Enter the path to the file:    /home/ketaki/dir1/dir2/dir3/dir4/example.yaml
color: blue
count: 2
size: 8
```
- Test case 2: All keys have list values
 - /home/ketaki/dir1/dir2/dir3/dir4/example.yaml :
wishlist: ["car", "pony"]
 - /home/ketaki/dir1/dir2/dir3/example.yaml :
wishlist: ["worldpeace"]
 - Output:

```
Enter the path to the file:    /home/ketaki/dir1/dir2/dir3/dir4/example.yaml
wishlist:
- worldpeace
- car
- pony
```
- Test case 3: Nested keys
 - /home/ketaki/dir1/dir2/dir3/dir4/example.yaml :
todo:
 vacuum:
 priority: high
 dishes:
 priority: low
 - /home/ketaki/dir1/dir2/dir3/example.yaml :
todo:
 dishes:
 priority: high
 laundry:
 priority: low

- Output:

```
Enter the path to the file:    /home/ketaki/dir1/dir2/dir3/dir4/example.yaml
todo:
  dishes:
    priority: low
  laundry:
    priority: low
  vacuum:
    priority: high
```

- Test case 4: Nested keys with duplicate keys having different nested keys in them

- /home/ketaki/dir1/dir2/dir3/dir4/example.yaml

```
todo:
  vacuum:
    priority: high
  dishes:
    priority: low
```

- /home/ketaki/dir1/dir2/dir3/example.yaml

```
todo:
  dishes:
    priority: high
    time: now
  laundry:
    priority: low
```

- Output: (All keys are preserved)

```
Enter the path to the file:    /home/ketaki/dir1/dir2/dir3/dir4/example.yaml
todo:
  dishes:
    priority: low
    time: now
  laundry:
    priority: low
  vacuum:
    priority: high
```

- Test case 5: Nested keys with duplicate keys having different nested keys in them

- /home/ketaki/dir1/dir2/dir3/dir4/example.yaml

```
todo:
  vacuum:
    priority: high
  dishes:
    priority: low
    Time: now
```

- /home/ketaki/dir1/dir2/dir3/example.yaml

```
todo:
  dishes:
```

priority: high

laundry:

priority: low

- Output: (All keys are preserved)

Enter the path to the file: /home/ketaki/dir1/dir2/dir3/dir4/example.yaml

todo:

dishes:

priority: low

time: now

laundry:

priority: low

vacuum:

priority: high

- Test case 6: child's duplicate key is a list and parent's duplicate key is a string

- /home/ketaki/dir1/dir2/dir3/dir4/example.yaml

wishlist: [1, 2]

- /home/ketaki/dir1/dir2/dir3/example.yaml

wishlist: blue

size: 8

- Output:

Enter the path to the file: /home/ketaki/dir1/dir2/dir3/dir4/example.yaml

size: 8

wishlist:

- 1

- 2

- blue

- Test case 7: child's duplicate key is a dict and parent's duplicate key is a list

- /home/ketaki/dir1/dir2/dir3/dir4/example.yaml

todo:

vacuum:

priority: high

dishes:

priority: low

- /home/ketaki/dir1/dir2/dir3/example.yaml

todo:

dishes: 8

Electricity: off

laundry:

priority: low

- Output: (All keys are preserved)

```

Enter the path to the file:    /home/ketaki/dir1/dir2/dir3/dir4/example.yaml
todo:
  dishes:
    priority: low
  electricity: false
  laundry:
    priority: low
  vacuum:
    priority: high

```

- Test case 8: child, first parent directory and second parent directory all have the files with the same name

- /home/ketaki/dir1/dir2/dir3/dir4/example.yaml
wishlist: ["worldpeace"]
- /home/ketaki/dir1/dir2/dir3/example.yaml
wishlist: ["car", "pony"]
- /home/ketaki/dir1/dir2/example.yaml
wishlist:

```

a:
  b: 2

```

- Output: (All keys are preserved)

```

wishlist:
- worldpeace
- car
- pony
- a:
  b: 2

```

- Test case 9: First parent directory doesn't have the file but the second parent directory has it.

- /home/ketaki/dir1/dir2/dir3/dir4/example.yaml
size: 8
count: 2
- /home/ketaki/dir1/dir2/example.yaml
size: 12
color: blue
- Output:

```

Enter the path to the file:    /home/ketaki/dir1/dir2/dir3/dir4/example.yaml
count: 2
size: 8

```

- Test case 10: Four directories have the same file
- /home/ketaki/dir1/dir2/dir3/dir4/example.yaml
a: 1
- /home/ketaki/dir1/dir2/dir3/example.yaml

- a: 2
 - b: [1,2,3]
- /home/ketaki/dir1/dir2/example.yaml
 - b: 6
 - c: hi
- /home/ketaki/dir1/example.yaml
 - size: 12
 - color: blue
- Output:


```
Enter the path to the file: /home/ketaki/dir1/dir2/dir3/dir4/example.yaml
a: 1
b:
- 1
- 2
- 3
- 6
c: hi
color: blue
size: 12
```

For mergeyamlfiles1.py:

- Test case 1: All keys have integer values
 - ./dir1/dir2/dir3/dir4/example.yaml :
 - size: 8
 - count: 2
 - ./dir1/dir2/dir3/example.yaml :
 - size: 12
 - color: blue
 - Output:

```
1 Build system information system_info
408
409 3.6.5 is not installed; attempting download
410 Downloading archive: https://travis-ci-python-
    archives.global.ssl.fastly.net/binaries/ubuntu/14.04/x86_64/python-3.6.5.tar.bz2
411 $ curl -sSf -o python-3.6.5.tar.bz2 ${archive_url} 0.82s
412 $ sudo tar xjf python-3.6.5.tar.bz2 --directory / 10.68s
413 Installing SSH key from: default repository key ssh_key
415 Using /home/travis/.netrc to clone repository.
416
417 $ git clone --depth=50 --branch=master https://github.com/ketki1296/Coding_prompt.git git.checkout 0.71s
426
427 $ source ~/virtualenv/python3.6.5/bin/activate 0.01s
428 $ python --version
429 Python 3.6.5
430 $ pip --version
431 pip 9.0.3 from /home/travis/virtualenv/python3.6.5/lib/python3.6/site-packages (python 3.6)
432 $ pip install pyyaml install 8.80s
442 $ python mergeyamlfiles1.py ./dir1/dir2/dir3/dir4/example.yaml 0.06s
443 color: blue
444 count: 2
445 size: 8
446
```

- Test case 2: All keys have list values
 - ./dir1/dir2/dir3/dir4/example.yaml :
wishlist: ["car", "pony"]
 - ./dir1/dir2/dir3/example.yaml :
wishlist: ["worldpeace"]
 - Output:

```
431 pip 9.0.3 from /home/travis/virtualenv/python3.6.5/lib/python3.6/site-packages (python 3.6)
432 $ pip install pyyaml install 8.35s
442 $ python mergeyamlfiles1.py ./dir1/dir2/dir3/dir4/example.yaml 0.06s
443 wishlist:
444 - worldpeace
445 - car
446 - pony
447
448 The command "python mergeyamlfiles1.py ./dir1/dir2/dir3/dir4/example.yaml" exited with 0.
449
```

- Test case 3: Nested keys
 - ./dir1/dir2/dir3/dir4/example.yaml :
todo:
 vacuum:
 priority: high
 dishes:
 priority: low
 - ./dir1/dir2/dir3/example.yaml :
todo:

dishes:
 priority: high
laundry:
 priority: low

○ Output:

```
442 $ python mergeyamlfiles1.py ./dir1/dir2/dir3/dir4/example.yaml 0.06s
443 todo:
444   dishes:
445     priority: low
446   laundry:
447     priority: low
448   vacuum:
449     priority: high
450
451 The command "python mergeyamlfiles1.py ./dir1/dir2/dir3/dir4/example.yaml" exited with 0.
452
```