HW1

Task1 GIT Command

> do

```
Github setup
For MAC user, just use terminal;
For Windows user, please install GitHubSetup.exe
Basic command
cd aml hw1
git init
git remote add orgin
https://github.com/AppliedMachineLearning/homework-i-joannahu.git
*before re-type: git remote rm orgin
git clone https://github.com/AppliedMachineLearning/homework-i-joannahu.git
*if
           it's
                                private
                                               repository:
                                                                   git
                                                                              clone
https://joannahu:ss219177@github.com/AppliedMachineLearning/homework-i-joann
https://<account_name>:<password>@github.com/AppliedMachineLearning/homework
-i-joannahu.git
cd homework-i-joannahu/
echo "UNI:qh2174" >> README.md
git add README.md
git commit -m "add UNI"
git push -u origin master
mkdir Task1
git add Task1
git commit -m 'add folder'
git push -u origin master
*undo a git push, you need to 'force' push the old reference.
git push -f origin last_known_good_commit:branch_name
Task 1
mkdir aml hw1
cd aml_hw1
git init
Administrator@CHINA-20141012Y /e/Documents/GitHub/aml_hw1 (master)
$ for num in 1 2 3 4 5
```

```
> touch $num
> git add $num
> git commit -m "commit file $num"
> done
[master (root-commit) e47861f] commit file 1
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 1
[master 52eaac6] commit file 2
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 2
[master e7a13ac] commit file 3
1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 3
[master e2aed61] commit file 4
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 4
[master 28e2d5d] commit file 5
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 5
$ git log --graph --oneline --decorate --all
* 28e2d5d (HEAD -> master) commit file 5
* e2aed61 commit file 4
* e7a13ac commit file 3
* 52eaac6 commit file 2
* e47861f commit file 1
git branch feature HEAD~4
                         #create new branch at 1 (4 commits before current HEAD)
*delete: git branch -d the local branch
git checkout feature
$ for num in 6 7 8
> do
> touch $num
> git add $num
> git commit -m "commit file $num"
> done
[feature 8905b3b] commit file 6
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 6
[feature ce4f8ca] commit file 7
1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 7
[feature 99e0bf7] commit file 8
 1 file changed, 0 insertions(+), 0 deletions(-)
```

```
create mode 100644 8
git checkout master
                    #move to master branch
git rebase HEAD~2 --onto feature #detach 4 and rebase to feature branch
$ git reflog
728e32b HEAD@{0}: rebase finished: returning to refs/heads/master
728e32b HEAD@{1}: rebase: commit file 5
8c63f0a HEAD@{2}: rebase: commit file 4
99e0bf7 HEAD@{3}: rebase: checkout feature
28e2d5d HEAD@{4}: checkout: moving from feature to master
99e0bf7 HEAD@{5}: commit: commit file 8
ce4f8ca HEAD@{6}: commit: commit file 7
8905b3b HEAD@{7}: commit: commit file 6
e47861f HEAD@{8}: checkout: moving from master to feature
28e2d5d HEAD@{9}: commit: commit file 5
e2aed61 HEAD@{10}: commit: commit file 4
e7a13ac HEAD@{11}: commit: commit file 3
52eaac6 HEAD@{12}: commit: commit file 2
e47861f HEAD@{13}: commit (initial): commit file 1
git checkout HEAD@{11}
touch 9
git add 9
git commit -m "commit file 9"
git branch debug
*if create debug before commit, you should checkout
git checkout master 7
                    #checkout
git add 7
git commit --amend --no-edit #use commit message of 9
```

Task2 Travis

```
How to write test function in python:
```

http://doc.pytest.org/en/latest/getting-started.html

```
在 Github 添加 Travis
put .yml file and requirements.txt in the root directory. (Conclude the configuration of python 2.7, 3.4, 3.5)
Setting→Integration & Service→Add service, choose "Travis CI"→Add click profile link -> 左侧选择 Applied machine learning
```

查看测试运行状态及结果:

https://travis-ci.com/AppliedMachineLearning/<your repo name>

Task3 Sphinx

Sphinx is used to generate HTML documentation.

Tutorial: http://chase-seibert.github.io/blog/2015/08/14/getting-started-with-sphinx.html

It employs latex to write maths equations. For example,

The Task 3 and Task 4 result shows at

https://appliedmachinelearning.github.io/homework-i-joannahu/

Task4 Visualization

Examples:

https://appliedmachinelearning.github.io/homework-i-Jenseits14/html/task4/iris_api.html https://appliedmachinelearning.github.io/homework-i-xinweili/