

# 1 Python for Numerical Analysis 101

## 1.1 Homework

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1.1.2 Week 2 Lesson 1

### 1.2 Pr 1

Create a python script *file* (example: Pr1`WK2.py), that when executed prints to screen.

Hello problem 1 from Week 2 Lesson 1.

### 1.3 Pr 2

Explain why you should ALWAYS have a .gitignore file in your repo.

### 1.4 Pr 3

Using `open` , create a new file that records user input (min 1, max 4 inputs) and then opens that files and APPENDS the following “Received User Input”

### 1.5 Pr 4

repeat `# 3` with a `with`

### 1.6 Pr 5

- Create a new git repo in github.
- Populate it with typical files and directories (.gitignore and README.md)
- Commit your changes.
- Push it to your repository

## 1.7 Sidebar

### 1.7.1 Why have a github account?

- Industry and some government jobs check your github account to see if you really do know that software language.
  - It free and a nice place to store software you used and like.
  - You can help contribute to open data!
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## 2 Week2 Lesson 1 Solutions.

### 2.1 Pr 1

See Pr1`WK2.py

### 2.2 Pr 2

- So that compiled byte code is not kept in version control.
- Keep private files out of repo
- So that unimportant documentation or images are not kept in version control.

etc

### 2.3 Pr 3

```
def save_input(file_nm):
    n = 2
    f = open(file_nm, 'w')
    for ii in range(n):
        usr_input = input("Please input something here ")
        f.write(usr_input+ '\n')
    f.close() # Very important to close

def append_file(file_nm):
    f = open(file_nm, 'a')
    f.write("Received User Input"+ '\n')
    f.close()

if __name__ == '__main__':
    file_name = 'getinput.txt'
    save_input(file_name)
    append_file(file_name)
```