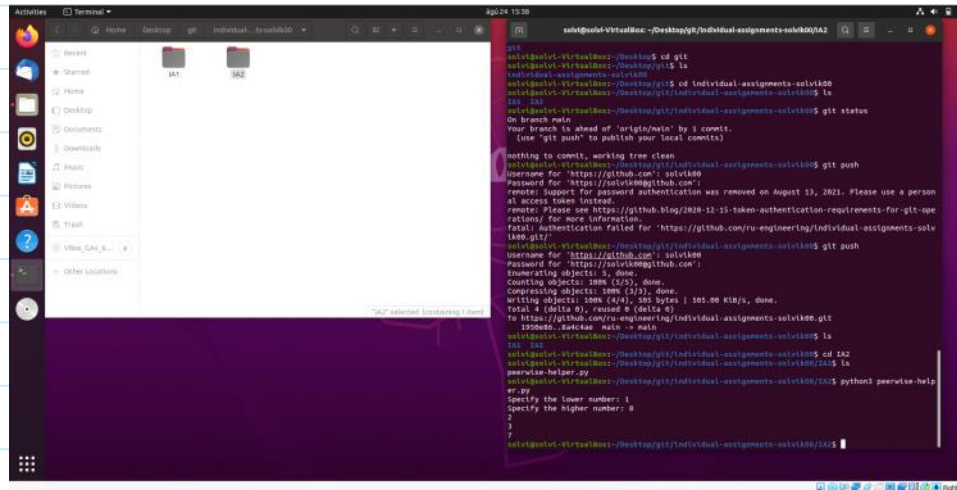


IA2

Tuesday, 24 August 2021 15:40

IA1 24. August

Finished task 1 of creating a python script which outputs 3 random numbers from a given range.



```
sol@sol:~/Desktop/individual-assignments-solvib01$ cd git
sol@sol:~/Desktop/git$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use 'git push' to publish your local commits)

nothing to commit, working tree clean
sol@sol:~/Desktop/git$ git push
Username for 'https://github.com': solvib01
Password for 'https://solvib01@github.com':
remote: Support for password authentication was removed on August 13, 2021. Please use a person
AI access token instead.
remote: Please see https://github.blog/2020-12-15-token-authentication-requirements-for-git-ope
rations/ for more information.
fatal: Authentication failed for 'https://github.com:ru-engineering/individual-assignments-solv
ib01.git/'
sol@sol:~/Desktop/git$ git push
Username for 'https://github.com': solvib01
Password for 'https://solvib01@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 305 bytes | 105.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To https://github.com:ru-engineering/individual-assignments-solvib01.git
   1b040..8a5c4  main -> main
sol@sol:~/Desktop/git$ cd individual-assignments-solvib01$ ls
100 101
sol@sol:~/Desktop/git/individual-assignments-solvib01$ cd 102
sol@sol:~/Desktop/git/individual-assignments-solvib01/102$ ls
peerwise-helper.py
sol@sol:~/Desktop/git/individual-assignments-solvib01/102$ python3 peerwise-helper.py
#?
Specify the lower number: 1
Specify the higher number: 8
2
3
7
sol@sol:~/Desktop/git/individual-assignments-solvib01/102$
```

Ran it in Ubuntu and committed all changes to the git repository.

Task 2

Used the python script to decide from which pages I would create questions in PeerWise.

Click to view	Preview	Question created	Number of answers	Your answer popular?	Help requests	Most recent comment	Number of comments	Difficulty rating	Overall rating
			sort		sort	sort	sort	sort	sort
1 =	A file system permission looks like this: drwxrwxr-x 22 root root ...	1 second ago	0	...	0	-	0	not rated	not rated
2 =	What is the difference between a super user and a regular user?	7 minutes ago	2	...	0	-	0	very easy	3.00
3 =	Why do RPI's use kernel space?	10 minutes ago	0	...	0	-	0	not rated	not rated

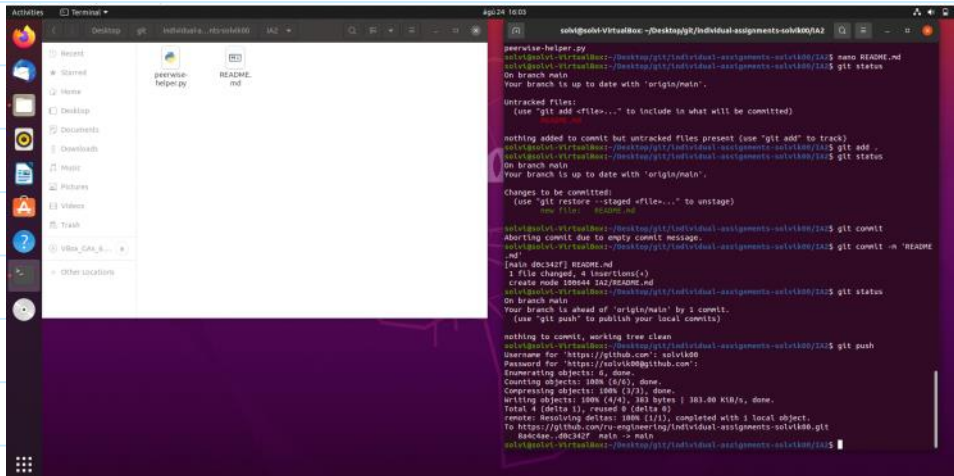
Task 3

Answered 10 questions tagged "IA2"

on peer wise.

Task 4

Created a README.md file and committed it to the repository.



```
peerwise-helper.py
sol@sol1-VirtualBox: ~/Desktop/individual-assignments-sol1k00/1A2
sol@sol1-VirtualBox:~/Desktop/individual-assignments-sol1k00/1A2$ nano README.md
sol@sol1-VirtualBox:~/Desktop/individual-assignments-sol1k00/1A2$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked Files:
  (use "git add <file>..." to include in what will be committed)

nothing added to commit but untracked files present (use "git add" to track)
sol@sol1-VirtualBox:~/Desktop/individual-assignments-sol1k00/1A2$ git add .
sol@sol1-VirtualBox:~/Desktop/individual-assignments-sol1k00/1A2$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file   : README.md
sol@sol1-VirtualBox:~/Desktop/individual-assignments-sol1k00/1A2$ git commit
Aborting commit due to empty commit message.
sol@sol1-VirtualBox:~/Desktop/individual-assignments-sol1k00/1A2$ git commit -m "README
.md"
[main d6c342f] README.md
1 file changed, 4 insertions(+)
Create mode 100644 README.md
sol@sol1-VirtualBox:~/Desktop/individual-assignments-sol1k00/1A2$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
sol@sol1-VirtualBox:~/Desktop/individual-assignments-sol1k00/1A2$ git push
Username for 'https://github.com': sol1k00
Password for 'https://sol1k00@github.com':
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 383 bytes | 383.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/pre-engineering/individual-assignments-sol1k00.git
   bac4ee-d6c342f  main -> main
sol@sol1-VirtualBox:~/Desktop/individual-assignments-sol1k00/1A2$
```

Task 5

Created a conflict using the README.md.

Edited the file using git Bash in windows and edited the file in Ubuntu so a conflict came up. Then I merged the two changes together, once in Ubuntu and once in Windows.

\$ git commit

\$ git merge --commit

\$ git push

Task 6

Ignoring files that end in .log and .o.

```
solvi@solvi-VirtualBox: ~/Desktop/git/individual-assignments-solvi00/IA2
$ git commit -m 'readme'
[solvi 448f153] readme
1 file changed, 1 insertion(+)
create mode 100644 README.md
$ git status
On branch main
Your branch is ahead of 'origin/main' by 3 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
$ git push
Username for 'https://github.com': solvi00
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 1.31 MiB/s, done.
Total 2 (delta 0), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com: solvi00/individual-assignments-solvi00.git
7485659..448f153  main -> main
$ gitignore *.log *.o
$ git commit -m 'ignore files ending in .log and .o'
[solvi 448f153] ignore files ending in .log and .o
1 file changed, 1 insertion(+)
create mode 100644 .gitignore
$ git push
Username for 'https://github.com': solvi00
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 1.31 MiB/s, done.
Total 2 (delta 0), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com: solvi00/individual-assignments-solvi00.git
7485659..448f153  main -> main
```

Task 7

When working with git you usually make a lot of edits and changes so to keep things clear it's important to add commit messages with each commit.

- Don't have any whitespace errors.
 - before you commit, run `$git diff --check`

- Commit often and keep them logically separate

- one commit per issue
- use `$git add --patch`

- For messages:

- Start with a single line
- no more than 50 characters
- Describe the changeset concisely
- Follow with a blank line
- Follow with more details including why the change and compare before and after.

Task 8

Sysfs allows us to access the onboard hardware (like the LED's). The command

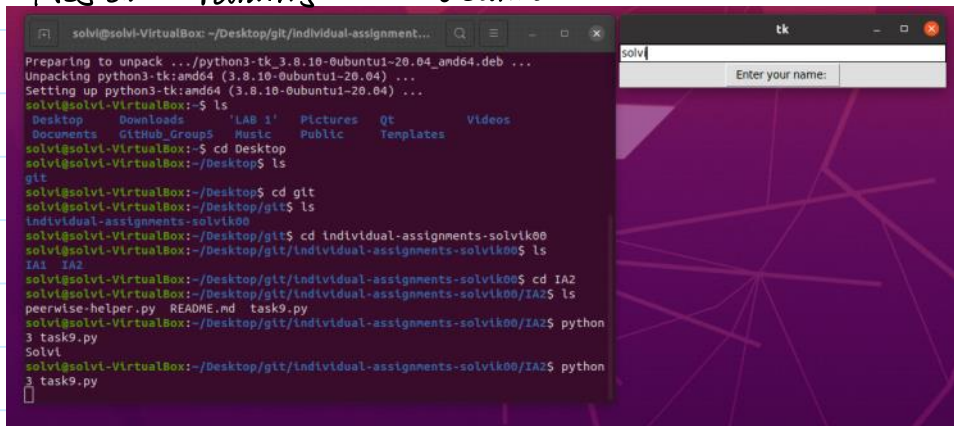
```
pi@erpi /sys/class/leds/led0 $ sudo sh -c "echo 1 > brightness"
```

↑ 1 for ON
0 for OFF

Task 9

Using Thinter I created a python script that opened a window, asked for a name and then printed said name in the terminal while closing the window.

Program running in Ubuntu



Code:

```
from tkinter import *
root = Tk()
e = Entry(root, width=50)
e.pack()
def myClick():
    name = e.get()
    myLabel = Label(root, text = 'Thx byeeee')
    myLabel.pack()
    print(name)
    root.destroy()
myButton = Button(root, text = 'Enter your name: ', command=myClick)
myButton.pack()
root.mainloop()
```

not necessary ↙