

Gitless Tasks

Getting help

- Command line help (e.g., `git help`, `git/gl cmd -h`, `man git-cmd`)
- Anything else you can find online (e.g., StackOverflow, Google searches)
- Please don't use your phone or other sources beyond the desktop
(since we're trying to track what you needed)

Navigating tasks

- Each session has a total of 7 tasks, each with a series of smaller steps
- For each step, we'll tell you what the resulting repository should look like
- If you make a mistake, don't worry! Just try to fix the problem, and remember you can search the web for help
- Don't go back to an old task: as soon as you move on to the next task we'll consider the previous task completed (if you finished all the steps) or abandoned
- Before each task you'll need to execute the bootstrap script `ut-run` with the next task number as input (instructions will be provided before each task). This script will clear what you've done so far and reset the repository to the state it's supposed to be for the next task.

Taking breaks

- You'll be able to take breaks between tasks. You'll know when you can take a break because there will be a slide with this symbol:



Misc tips

- Note that you are on a Mac so it's `⌘+c` to copy and `⌘+v` to paste (Ctrl+c/Ctrl+v won't work)
- You can configure the default text editor to be used when Gitless needs you to type in a message. If not configured, Gitless will use Vim. If you want to use a different text editor, such as Emacs, run the following command:

```
git config --global core.editor emacs
```
- There's a separate txt file `$SNIPPETS` which you can open with your editor of choice and use that for copy/pasting text instead of doing it from the slides
- If a step is not clear to you try reading its corresponding "check." It might help you figure out what to do

Fit-cli

In each session you'll be working as part of the team of fit industries Inc., developers of fit-cli. Fit-cli is a command line tool which given your gender, age, weight and height computes an estimate of the number of calories you burn per day just for being alive (also known as the resting metabolic rate).

Ever wanted to get a lower bound on the calories burned per day without leaving the command line? This is the app for you! Together with Alice (the CEO) and her team you are going to change the world.

Gitless

The fit-cli team are huge fans of gitless and use gitless for version control. Throughout the session you'll be using gitless to track changes to the source code. Fit-cli is written in Python but you don't need to know any code; we'll tell you exactly what to change and how. What you'll need to figure out is how to use gitless to complete the requested tasks.

Before we begin, please take a few minutes to read the [gitless documentation](#)



You can take a break now if you want

Coming next: Task 0 (Practice Task)

Task 0 (Practice Task): Clone the fit-cli repository

Let's set up our machine to be ready to contribute to fit-cli. To do this we are going to clone the fit-cli repository.

- 1) Open the terminal, go to ~/Documents and clone the fit-cli repo at \$FIT_CLI_REMOTE - [check](#)



You can take a break now if you want

Get your repository ready for the next task by running the
command `ut-run gl 1`

Coming next: task 1/6

Task 1: Add readme file

Maybe you didn't notice but our app has no readme file! What an atrocity! Let's fix this.

- 1) Create README.md with [these contents](#)
- 2) Track README.md - [check](#)
- 3) Let's add usage instructions to the readme. Open README.md and [make this change](#).
- 4) Create a commit with all changes to README.md and message "added readme" - [check](#)



You can take a break now if you want

Get your repository ready for the next task by running the
command `ut-run g1 2`

Coming next: task 2/6

Task 2: Let users input weight in kilos

The fact that users can only input their weight in pounds and height in inches happens to be a huge deterrement to non-US users of fit-cli. Alice has instructed you to implement two new features: let users input weight in kilos and let them input height in meters.

First, we are going to begin by implementing the kilos feature.

- 1) Let's be diligent and work in a separate branch. Create a new branch feat/kilos and switch to it - [check](#)
- 2) Open file `fit.py` and [make this change](#) - [check](#)
- 3) Create a commit with the changes to `fit.py` and message "kilos feature" - [check](#)
- 4) Bob (the CTO) will review our changes. Run the `ut-pr-kilos-send` command to send a pull request.
- 5) Bob has send you some comments on your code. First, he suggested we add a help message to the kilos flag. That's an easy fix! Open `fit.py` and [make this change](#) - [check](#)

Bob also suggested that instead of using the `w_const_female` and `w_const_male` variables we should change that to a dictionary. This is going to take more time to fix, so we are going to put this aside for a while and work on the meters feature instead.



You can take a break now if you want

Get your repository ready for the next task by running the
command `ut-run gl 3`

Coming next: task 3/6

Task 3: Let users input height in meters (3.1)

3.1. Let's get started with the height in meters feature.

- 1) Create a new branch feat/meters that diverges from master and switch to feat/meters - [check](#)
- 2) Open file fit.py and [make this change](#) - [check](#)

Task 3: Let users input height in meters (3.2)

3.2. Alice just broke into your office! One of the main users of fit-cli reported a critical bug: no error is reported to the user if she inputs a value that is not the string "female" or "male" for the gender. Since she wants you to fix this right away, we are going to fix this bug, and then go back to working on our features.

- 1) Switch back to master - [check](#)
- 2) Open file `fit.py` and [make this change](#) - [check](#)
- 3) Create a commit with the changes to `fit.py` and message "fix error checking bug" - [check](#)
- 4) Publish the changes

Phew, the bug is now fixed. Now we are going to finish with our features.



You can take a break now if you want

Get your repository ready for the next task by running the
command `ut-run gl 4`

Coming next: task 4/6

Task 4: Wrap with features (4.1)

4.1. Bob wants us to wrap up the kilos feature so that it gets shipped with the next release. So instead of going back to working on the meters feature, we are going to leave that aside and finish with kilos.

- 1) Switch back to feat/kilos - [check](#)
- 2) Let's change to using a dictionary like Bob wanted. Open `fit.py` and [make this change](#) - [check](#)
- 3) Create a commit with the changes to `fit.py` and message "kilos improvements" - [check](#)
- 4) Update the kilos pull request: run the command `ut-pr-kilos-update`

Task 4: Wrap with features (4.2)

4.2. While we wait to hear from Bob regarding the kilos feature, we are going to go back to finishing with the meters feature.

- 1) Switch to feat/meters - [check](#)
- 2) Now let's modify the computation of the rmb to use meters if the user specified so. Open `fit.py` and [make this change](#) - [check](#)
- 3) Create a commit with the changes to `fit.py` and message "meters feature" - [check](#)
- 4) Bob (the CTO) will review our changes. Run the `ut-pr-meters-send` command to send a pull request.



You can take a break now if you want

Get your repository ready for the next task by running the
command `ut-run gl 5`

Coming next: task 5/6

Task 5: Fixing conflicts (5.1)

5.1. Bob accepted your kilos merge request, but now he's saying that the height pull request doesn't apply cleanly, and he's asking us to fix conflicts with master and update the pull request.

- 1) Update our local master branch with the new changes in the remote master - [check](#)
- 2) Switch back to feat/meters and fuse the changes from master (which will generate conflicts) - [check](#)
- 3) Let's start fixing conflicts. Open `fit.py` and [make this change](#) - [check](#)

Task 5: Fixing conflicts (5.2)

5.2. Bob just broke into your office! Apparently we've been using the wrong shebang line all of this time. He wants you to fix this right away. We are going to fix this bug, and then go back to finish resolving the conflicts.

- 1) Switch to master - [check](#)
- 2) Open `fit.py` and [make this change](#) - [check](#)
- 3) Create a commit with the changes to `fit.py` and message "fix shebang" - [check](#)
- 4) Publish

Task 5: Fixing conflicts (5.3)

5.3. Let's finish fixing conflicts

- 1) Switch back to feat/meters and go back to the state where we were before fixing the bug - [check](#)
- 2) Open fit.py and [make this change](#) - [check](#)
- 3) Finish with the fuse operation - [check](#)
- 4) Update the meters pull request: run the command `ut-pr-meters-update`



You can take a break now if you want

Get your repository ready for the next task by running the
command `ut-run gl 6`

Coming next: task 6/6

Task 6: Code cleanup

6.1. It's time to clean up our code. This should be a fairly small task so we are going to keep it simple and work on master.

- 1) Switch to master and pull changes - [check](#)
- 2) Open `fit.py` and [make this change](#) - [check](#)
- 3) Create a commit with the changes to `fit.py` and message "join const dicts" - [check](#)

Task 6: Code cleanup

6.2. After a walk in the park you realized that the last commit might be wrong. So we are going to try something different.

- 1) Go back to the same state as before the commit - [check](#)
- 2) Open `fit.py` and [make this change](#) - [check](#)
- 3) Create a new commit with message "switch to using nt for consts" - [check](#)
- 4) Using namedtuples looks better than merging the dictionaries, so let's go ahead and publish these changes

The end!

Please complete the [end of session survey](#)

If this was your second session please complete the [end of study survey](#)

Material for Task 0

[go back to task 0](#)

Command	Expected output
Assuming you are at ~/Documents	
ls	fit-cli
Assuming you are at ~/Documents/fit-cli	
ls	fit.py
gl branch	List of branches: → do gl branch -c to create branch b → do gl branch -d to delete branch b → do gl switch to switch to branch b → * = current branch * master (upstream is origin/master)
gl history -c	0e032fd first cut at fit-cli app f821dce Initialize repository

Material for Task 1

[go back to task 1](#)

fit-cli

=====

The ultimate fitness app. Give your gender, age, weight and height to fit-cli and get an estimate of the number of calories you burn per day just for being alive; all of this without leaving the command line!

[go back to task 1](#)

Command	Expected output
gl status	<p>On branch master, repo-directory //</p> <p>Tracked files with modifications:</p> <ul style="list-style-type: none">→ these will be automatically considered for commit→ use <code>gl untrack <f></code> if you don't want to track changes to file <code>f</code>→ if file <code>f</code> was committed before, use <code>gl checkout <f></code> to discard local changes <p> README.md (new file)</p> <p>Untracked files:</p> <ul style="list-style-type: none">→ these won't be considered for commit→ use <code>gl track <f></code> if you want to track changes to file <code>f</code> <p> There are no untracked files to list</p>

[go back to task 1](#)

1) Add at the end of the file:

To run fit-cli execute the fit.py script which accepts the following optional flags: -g/--gender, -a/--age, -w/--weight, -h/--height.

[go back to task 1](#)

Command	Expected output
<code>gl history -c -v -l 1</code>	<pre>5b01354 added readme Diff of file "README.md" 5 lines added 0 lines removed @@ -0,0 +1,5 @@ 1 +fit-cli 2 +===== 3 +The ultimate fitness app. Give your gender, age, weight and height to fit-cli and get an estimate of the number of calories you burn per day just for being alive; all of this without leaving the command line! 4 + 5 +To run fit-cli execute the fit.py script which accepts the following optional flags:-g/--gender, -a/--age, -w/--weight, -h/--height.</pre>
<code>gl history -c</code>	<pre>5b01354 added readme 0e032fd first cut at fit-cli app f821dce Initialize repository</pre>

Material for Task 2

[go back to task 2](#)

Command	Expected output
gl branch	<p>List of branches:</p> <ul style="list-style-type: none">→ do <code>gl branch -c </code> to create branch b→ do <code>gl branch -d </code> to delete branch b→ do <code>gl switch </code> to switch to branch b→ * = current branch <p>* feat/kilos master (upstream is origin/master)</p>

[go back to task 2](#)

- 1) After line 13 (i.e., after the height flag) add the following text in a new line:

```
parser.add_argument('-k', '--kilos', action='store_true')
```

- 2) Update the rmb call to match:

```
result = rmb(  
    args.gender, args.age, args.weight, args.height, use_kg=args.kilos)
```

- 3) Update the rmb function to match:

```
def rmb(gender, age, weight, height, use_kg=False):  
    w_const_female = 9.56 if use_kg else 4.35  
    w_const_male = 13.75 if use_kg else 6.25  
    if gender == 'female':  
        return (655 + w_const_female * weight + 4.7 * height - 4.7 * age) * 1.1  
    else:  
        return (66 + w_const_male * weight + 12.7 * height - 6.76 * age) * 1.1
```

[go back to task 2](#)

Command	Expected output
gl diff	<pre>Diff of file "fit.py" 8 lines added 4 lines removed @@ -11,18 +11,22 @@ 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches') 14 14 + parser.add_argument('-k', '--kilos', action='store_true') 15 15 args = parser.parse_args() 16 16 17 17 - result = rmb(args.gender, args.age, args.weight, args.height) 18 18 + result = rmb(19 19 + args.gender, args.age, args.weight, args.height, use_kg=args.kilos) 20 20 print('Your resting metabolic rate is {}'.format(result)) 21 21 22 22 23 23 -def rmb(gender, age, weight, height): 24 24 +def rmb(gender, age, weight, height, use_kg=False): 25 25 + w_const_female = 9.56 if use_kg else 4.35 26 26 + w_const_male = 13.75 if use_kg else 6.25 27 27 + if gender == 'female': 28 28 + return (655 + 4.35 * weight + 4.7 * height - 4.7 * age) * 1.1 29 29 + return (655 + w_const_female * weight + 4.7 * height - 4.7 * age) * 1.1 30 30 + else: 31 31 + return (66 + 6.25 * weight + 12.7 * height - 6.76 * age) * 1.1 32 32 + return (66 + w_const_male * weight + 12.7 * height - 6.76 * age) * 1.1 33 33 34 34 if __name__ == '__main__':</pre>

[go back to task 2](#)

Command	Expected output
<code>gl history -c -v -l 1</code>	<pre>c3de091 kilos feature Diff of file "fit.py" 8 lines added 4 lines removed @@ -11,18 +11,22 @@ 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches') 14 14 + parser.add_argument('-k', '--kilos', action='store_true') 15 15 args = parser.parse_args() 16 16 - result = rmb(args.gender, args.age, args.weight, args.height) 17 17 + result = rmb(18 18 + args.gender, args.age, args.weight, args.height, use_kg=args.kilos) 19 19 20 20 print('Your resting metabolic rate is {}'.format(result)) 21 21 22 22 23 23 -def rmb(gender, age, weight, height): 24 24 +def rmb(gender, age, weight, height, use_kg=False): 25 25 + w_const_female = 9.56 if use_kg else 4.35 26 26 + w_const_male = 13.75 if use_kg else 6.25 27 27 + if gender == 'female': 28 28 + return (655 + 4.35 * weight + 4.7 * height - 4.7 * age) * 1.1 29 29 + else: 30 30 + return (66 + 6.25 * weight + 12.7 * height - 6.76 * age) * 1.1 31 31 + return (66 + w_const_male * weight + 12.7 * height - 6.76 * age) * 1.1 32 32 if __name__ == '__main__':</pre>
<code>gl history -c</code>	<pre>c3de091 kilos feature 5b01354 added readme 0e032fd first cut at fit-cli app f821dce Initialize repository</pre>

[go back to task 2](#)

- 1) Change the kilos argument (line 14) to:

```
parser.add_argument(  
    '-k', '--kilos', action='store_true',  
    help='if true, then the weight given as input is interpreted as kg')
```


[go back to task 2](#)

Command	Expected output
gl diff	<pre>Diff of file "fit.py" 3 lines added 1 line removed @@ -11,7 +11,9 @@ 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches') 14 - parser.add_argument('-k', '--kilos', action='store_true') 14 + parser.add_argument(15 + '-k', '--kilos', action='store_true', 16 + help='if true, then the weight given as input is interpreted as kg') 15 17 args = parser.parse_args() 16 18 17 19 result = rmb(</pre>

Material for Task 3

[go back to task 3 \(3.1\)](#)

Command	Expected output
<code>gl branch -v</code>	<p>List of branches:</p> <ul style="list-style-type: none">→ do <code>gl branch -c </code> to create branch b→ do <code>gl branch -d </code> to delete branch b→ do <code>gl switch </code> to switch to branch b→ * = current branch <p>feat/kilos</p> <ul style="list-style-type: none">→ head is c3de091 kilos feature <p>* feat/meters</p> <ul style="list-style-type: none">→ head is 5b01354 added readme <p>master (upstream is origin/master)</p> <ul style="list-style-type: none">→ head is 5b01354 added readme

go back to task 3 (3.1)

- 1) After line 13 (i.e., after the height flag) add the following text in a new line:

```
parser.add_argument(  
    '-m', '--meters', action='store_true',  
    help='if true, the height input will be interpreted in meters')
```

- 2) Update the rmb call to match:

```
result = rmb(  
    args.gender, args.age, args.weight, args.height, use_m=args.meters)
```

- 3) Update the rmb function to match:

```
def rmb(gender, age, weight, height, use_m=False):  
    h_const= {  
        'female': 1.8 if use_m else 4.7,  
        'male': 5 if use_m else 12.7  
    }  
    if gender == 'female':  
        return (655 + 4.35 * weight + 4.7 * height - 4.7 * age) * 1.1  
    else:  
        return (66 + 6.25 * weight + 12.7 * height - 6.76 * age) * 1.1
```

go back to task 3 (3.1)

Command	Expected output
gl diff	<pre>Diff of file "fit.py" 10 lines added 2 lines removed @@ -11,14 +11,22 @@ 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches') 14 14 + parser.add_argument(15 15 + '-m', '--meters', action='store_true', 16 16 + help='if true, the height input will be interpreted in meters') 14 17 args = parser.parse_args() 15 18 16 19 - result = rmb(args.gender, args.age, args.weight, args.height) 17 20 + result = rmb(18 21 + args.gender, args.age, args.weight, args.height, use_m=args.meters) 19 22 20 23 print('Your resting metabolic rate is {}'.format(result)) 21 24 22 25 -def rmb(gender, age, weight, height): 23 26 +def rmb(gender, age, weight, height, use_m=False): 24 27 + h_const= { 25 28 + 'female': 1.8 if use_m else 4.7, 26 29 + 'male': 5 if use_m else 12.7 27 30 + } 28 31 if gender == 'female': 29 32 return (655 + 4.35 * weight + 4.7 * height - 4.7 * age) * 1.1 30 33 else:</pre>

go back to task 3 (3.2)

Command	Expected output
<code>gl branch</code>	<p>List of branches:</p> <ul style="list-style-type: none">→ do <code>gl branch -c </code> to create branch b→ do <code>gl branch -d </code> to delete branch b→ do <code>gl switch </code> to switch to branch b→ * = current branch <p>feat/kilos * feat/meters master (upstream is origin/master)</p>
<code>gl status</code>	should show no uncommitted changes to fit.py

[go back to task 3 \(3.2\)](#)

- 1) Replace the line declaring the gender argument (line 10) to:

```
parser.add_argument('gender', choices=['female', 'male'])
```

[go back to task 3 \(3.2\)](#)

Command	Expected output
gl diff	<pre>Diff of file "fit.py" 1 line added 1 line removed @@ -7,7 +7,7 @@ 7 7 parser = argparse.ArgumentParser(8 8 description=(9 9 'fit-cli: compute your resting metabolic rate from the command line')) 10 - parser.add_argument('gender') 10 + parser.add_argument('gender', choices=['female', 'male']) 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches')</pre>

[go back to task 3 \(3.2\)](#)

Command	Expected output
<pre>gl history -c -v -l 1</pre>	<pre>0b04279 fix error checking bug Diff of file "fit.py" 1 line added 1 line removed @@ -7,7 +7,7 @@ 7 7 parser = argparse.ArgumentParser(8 8 description=(9 9 'fit-cli: compute your resting metabolic rate from the command line')) 10 - parser.add_argument('gender') 10 + parser.add_argument('gender', choices=['female', 'male']) 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches')</pre>
<pre>gl history -c</pre>	<pre>0b04279 fix error checking bug 1043f59 added readme 0e032fd first cut at fit-cli app f821dce Initialize repository</pre>

Material for Task 4

go back to task 4 (4.1)

Command	Expected output
gl status	<p>On branch feat/kilos, repo-directory //</p> <p>Tracked files with modifications:</p> <ul style="list-style-type: none">→ these will be automatically considered for commit→ use <code>gl untrack <f></code> if you don't want to track changes to file <code>f</code>→ if file <code>f</code> was committed before, use <code>gl checkout <f></code> to discard local changes <p>fit.py</p> <p>Untracked files:</p> <ul style="list-style-type: none">→ these won't be considered for commit→ use <code>gl track <f></code> if you want to track changes to file <code>f</code> <p>There are no untracked files to list</p>
gl diff	<p>Diff of file "fit.py"</p> <p>3 lines added</p> <p>1 line removed</p> <pre>@@ -11,7 +11,9 @@ 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches') 14 - parser.add_argument('-k', '--kilos', action='store_true') 14 + parser.add_argument(15 + '-k', '--kilos', action='store_true', 16 + help='if true, then the weight given as input is interpreted as kg') 15 17 args = parser.parse_args() 16 18 17 19 result = rmb(</pre>

[go back to task 4 \(4.1\)](#)

1) Update the rmb function to match:

```
def rmb(gender, age, weight, height, use_kg=False):  
    w_const = {  
        'female': 9.56 if use_kg else 4.35,  
        'male': 13.75 if use_kg else 6.25  
    }  
    if gender == 'female':  
        return (655 + w_const[gender] * weight + 4.7 * height - 4.7 * age) * 1.1  
    else:  
        return (66 + w_const[gender] * weight + 12.7 * height - 6.76 * age) * 1.1
```

[go back to task 4 \(4.1\)](#)

Command	Expected output
gl diff	<pre>Diff of file "fit.py" 9 lines added 5 lines removed @@ -11,7 +11,9 @@ 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches') 14 - parser.add_argument('-k', '--kilos', action='store_true') 15 + parser.add_argument(16 + '-k', '--kilos', action='store_true', 17 + help='if true, then the weight given as input is interpreted as kg') 15 17 args = parser.parse_args() 16 18 17 19 result = rmb(@@ -21,12 +23,14 @@ 21 23 22 24 23 25 def rmb(gender, age, weight, height, use_kg=False): 24 - w_const_female = 9.56 if use_kg else 4.35 25 - w_const_male = 13.75 if use_kg else 6.25 26 + w_const = { 27 + 'female': 9.56 if use_kg else 4.35, 28 + 'male': 13.75 if use_kg else 6.25 29 + } 26 30 if gender == 'female': 27 - return (655 + w_const_female * weight + 4.7 * height - 4.7 * age) * 1.1 31 + return (655 + w_const[gender] * weight + 4.7 * height - 4.7 * age) * 1.1 28 32 else: 29 - return (66 + w_const_male * weight + 12.7 * height - 6.76 * age) * 1.1 33 + return (66 + w_const[gender] * weight + 12.7 * height - 6.76 * age) * 1.1 30 34 31 35 32 36 if __name__ == '__main__':</pre>

go back to task 4 (4.1)

Command	Expected output
<pre>gl history -c -v -l 1</pre>	<pre>1f788f9 kilos improvements Diff of file "fit.py" 9 lines added 5 lines removed @@ -11,7 +11,9 @@ 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches') 14 14 - parser.add_argument('-k', '--kilos', action='store_true') 14 14 + parser.add_argument(15 15 + '-k', '--kilos', action='store_true', 16 16 + help='if true, then the weight given as input is interpreted as kg') 15 17 args = parser.parse_args() 16 18 17 19 result = rmb(@@ -21,12 +23,14 @@ 21 23 22 24 23 25 def rmb(gender, age, weight, height, use_kg=False): 24 26 - w_const_female = 9.56 if use_kg else 4.35 25 27 - w_const_male = 13.75 if use_kg else 6.25 26 28 + w_const = { 27 29 + 'female': 9.56 if use_kg else 4.35, 28 30 + 'male': 13.75 if use_kg else 6.25 29 31 + } 30 32 if gender == 'female': 31 33 - return (655 + w_const_female * weight + 4.7 * height - 4.7 * age) * 1.1 32 34 + return (655 + w_const[gender] * weight + 4.7 * height - 4.7 * age) * 1.1 33 35 else: 34 36 - return (66 + w_const_male * weight + 12.7 * height - 6.76 * age) * 1.1 35 37 + return (66 + w_const[gender] * weight + 12.7 * height - 6.76 * age) * 1.1 36 38 37 39 if __name__ == '__main__':</pre>

<pre>gl history -c</pre>	<pre>abd1aee kilos improvements 0f4dc88 kilos feature 1043f59 added readme 0e032fd first cut at fit-cli app f821dce Initialize repository</pre>
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[go back to task 4 \(4.2\)](#)

Command	Expected output
gl branch	<pre>*List of branches: → do gl branch -c to create branch b → do gl branch -d to delete branch b → do gl switch to switch to branch b → * = current branch feat/kilos * feat/meters master (upstream is origin/master)</pre>
gl diff	<pre>Diff of file "fit.py" 10 lines added 2 lines removed @@ -11,14 +11,22 @@ 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches') 14 14 + parser.add_argument(15 15 + '-m', '--meters', action='store_true', 16 16 + help='if true, the height input will be interpreted in meters') 14 17 args = parser.parse_args() 15 18 16 16 - result = rmb(args.gender, args.age, args.weight, args.height) 17 19 + result = rmb(18 20 + args.gender, args.age, args.weight, args.height, use_m=args.meters) 19 21 20 22 print('Your resting metabolic rate is {0}'.format(result)) 21 23 22 24 23 25 -def rmb(gender, age, weight, height): 24 26 +def rmb(gender, age, weight, height, use_m=False): 25 27 + h_const= { 26 28 + 'female': 1.8 if use_m else 4.7, 27 29 + 'male': 5 if use_m else 12.7 28 30 + } 29 31 if gender == 'female': 30 32 return (655 + 4.35 * weight + 4.7 * height - 4.7 * age) * 1.1 31 33 32 34 else:</pre>

go back to task 4 (4.2)

1) Update the rmb function to match:

```
def rmb(gender, age, weight, height, use_m=False):  
    h_const= {  
        'female': 1.8 if use_m else 4.7,  
        'male': 5 if use_m else 12.7  
    }  
    if gender == 'female':  
        return (655 + 4.35 * weight + h_const[gender] * height - 4.7 * age) * 1.1  
    else:  
        return (66 + 6.25 * weight + h_const[gender] * height - 6.76 * age) * 1.1
```


[go back to task 4 \(4.2\)](#)

Command	Expected output
gl diff	<pre>Diff of file "fit.py" 12 lines added 4 lines removed @@ -11,18 +11,26 @@ 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches') 14 + parser.add_argument(15 + '-m', '--meters', action='store_true', 16 + help='if true, the height input will be interpreted in meters') 14 17 args = parser.parse_args() 15 18 16 - result = rmb(args.gender, args.age, args.weight, args.height) 16 19 + result = rmb(17 20 + args.gender, args.age, args.weight, args.height, use_m=args.meters) 17 21 18 22 print('Your resting metabolic rate is {}'.format(result)) 19 23 20 24 21 -def rmb(gender, age, weight, height): 25 +def rmb(gender, age, weight, height, use_m=False): 26 + h_const= { 27 + 'female': 1.8 if use_m else 4.7, 28 + 'male': 5 if use_m else 12.7 29 + } 22 30 if gender == 'female': 23 - return (655 + 4.35 * weight + 4.7 * height - 4.7 * age) * 1.1 23 31 + return (655 + 4.35 * weight + h_const[gender] * height - 4.7 * age) * 1.1 24 32 else: 25 - return (66 + 6.25 * weight + 12.7 * height - 6.76 * age) * 1.1 25 33 + return (66 + 6.25 * weight + h_const[gender] * height - 6.76 * age) * 1.1 26 34 27 35 28 36 if __name__ == '__main__':</pre>

go back to task 4 (4.2)

Command	Expected output
<pre>gl history -c -v -l 1</pre>	<pre>57af2a0 meters feature Diff of file "fit.py" 12 lines added 4 lines removed @@ -11,18 +11,26 @@ 11 11 parser.add_argument('age', type=int) 12 12 parser.add_argument('weight', type=int, help='in pounds') 13 13 parser.add_argument('height', type=int, help='in inches') 14 + parser.add_argument(15 + '-m', '--meters', action='store_true', 16 + help='if true, the height input will be interpreted in meters') 14 17 args = parser.parse_args() 15 18 16 19 - result = rmb(args.gender, args.age, args.weight, args.height) 20 + result = rmb(21 + args.gender, args.age, args.weight, args.height, use_m=args.meters) 17 21 18 22 print('Your resting metabolic rate is {0}'.format(result)) 19 23 20 24 21 25 -def rmb(gender, age, weight, height): 26 +def rmb(gender, age, weight, height, use_m=False): 27 + h_const= { 28 + 'female': 1.8 if use_m else 4.7, 29 + 'male': 5 if use_m else 12.7 30 + } 22 30 if gender == 'female': 23 31 - return (655 + 4.35 * weight + 4.7 * height - 4.7 * age) * 1.1 32 + return (655 + 4.35 * weight + h_const[gender] * height - 4.7 * age) * 1.1 24 32 else: 25 33 - return (66 + 6.25 * weight + 12.7 * height - 6.76 * age) * 1.1 34 + return (66 + 6.25 * weight + h_const[gender] * height - 6.76 * age) * 1.1 26 34 27 35 28 36 if __name__ == '__main__':</pre>

<pre>gl history -c</pre>	<pre>98b2361 meters feature fea42b3 added readme 0e032fd first cut at fit-cli app f821dce Initialize repository</pre>
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Material for Task 5

[go back to task 5 \(5.1\)](#)

Command	Expected output
<code>gl history -c</code>	<pre>Merge commit Merges: ebd97bb 1620b1f 256c232 Merge branch 'feat/kilos' into tmp 1620b1f kilos improvements 03e9db4 kilos feature ebd97bb fix error checking bug fea42b3 added readme 0e032fd first cut at fit-cli app f821dce Initialize repository</pre>

[go back to task 5 \(5.1\)](#)

Command	Expected output
<code>gl status</code>	<p>On branch feat/meters, repo-directory //</p> <p>You are in the middle of a fuse; all conflicts must be resolved before committing</p> <ul style="list-style-type: none">→ use <code>gl fuse --abort</code> to go back to the state before the fuse→ use <code>gl resolve <f></code> to mark file <code>f</code> as resolved→ once you solved all conflicts do <code>gl commit</code> to continue <p>Tracked files with modifications:</p> <ul style="list-style-type: none">→ these will be automatically considered for commit→ use <code>gl untrack <f></code> if you don't want to track changes to file <code>f</code>→ if file <code>f</code> was committed before, use <code>gl checkout <f></code> to discard local changes <p>fit.py (with conflicts)</p> <p>Untracked files:</p> <ul style="list-style-type: none">→ these won't be considered for commit→ use <code>gl track <f></code> if you want to track changes to file <code>f</code> <p>There are no untracked files to list</p>

[go back to task 5 \(5.1\)](#)

1) Update the main function to match:

```
def main():
    parser = argparse.ArgumentParser(
        description=(
            'fit-cli: compute your resting metabolic rate from the command line'))
    parser.add_argument('gender', choices=['female', 'male'])
    parser.add_argument('age', type=int)
    parser.add_argument('weight', type=int, help='in pounds')
    parser.add_argument('height', type=int, help='in inches')
    parser.add_argument(
        '-k', '--kilos', action='store_true',
        help='if true, then the weight given as input is interpreted as kg')
    parser.add_argument(
        '-m', '--meters', action='store_true',
        help='if true, the height input will be interpreted in meters')
    args = parser.parse_args()

    result = rmb(
        args.gender, args.age, args.weight, args.height,
        use_kg=args.kilos, use_m=args.meters)

    print('Your resting metabolic rate is {}'.format(result))
```

go back to task 5 (5.1)

Command	Expected output
gl diff	<pre>Diff of file "fit.py" 17 lines added 1 line removed @@ -14,14 +14,19 @@ 14 14 parser.add_argument(15 15 '-k', '--kilos', action='store_true', 16 16 help='if true, then the weight given as input is interpreted as kg') 17 + parser.add_argument(18 + '-m', '--meters', action='store_true', 19 + help='if true, the height input will be interpreted in meters') 17 20 args = parser.parse_args() 18 21 19 22 result = rmb(20 - args.gender, args.age, args.weight, args.height, use_kg=args. kilos) 23 + args.gender, args.age, args.weight, args.height, 24 + use_kg=args.kilos, use_m=args.meters) 21 25 22 26 print('Your resting metabolic rate is {}'.format(result)) 23 27 24 28 29 +<<<<<<< HEAD 25 30 def rmb(gender, age, weight, height, use_kg=False): 26 31 w_const = { 27 32 'female': 9.56 if use_kg else 4.35,</pre>

gl diff (cont)	<pre>@@ -31,6 +36,17 @@ 31 36 return (655 + w_const[gender] * weight + 4.7 * height - 4.7 * age) * 1.1 32 37 else: 33 38 return (66 + w_const[gender] * weight + 12.7 * height - 6.76 * age) * 1.1 39 +===== 40 +def rmb(gender, age, weight, height, use_m=False): 41 + h_const= { 42 + 'female': 1.8 if use_m else 4.7, 43 + 'male': 5 if use_m else 12.7 44 + } 45 + if gender == 'female': 46 + return (655 + 4.35 * weight + h_const[gender] * height - 4.7 * age) * 1.1 47 + else: 48 + return (66 + 6.25 * weight + h_const[gender] * height - 6.76 * age) * 1.1 49 +>>>>>> meters feature 34 50 35 51 36 52 if __name__ == '__main__':</pre>
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[go back to task 5 \(5.2\)](#)

Command	Expected output
gl branch	<p>List of branches:</p> <ul style="list-style-type: none">→ do gl branch -c to create branch b→ do gl branch -d to delete branch b→ do gl switch to switch to branch b→ * = current branch <p>feat/kilos feat/meters * master (upstream is origin/master)</p>

[go back to task 5 \(5.2\)](#)

1) Replace

```
#!/usr/bin/python
```

with

```
#!/usr/bin/env python
```

[go back to task 5 \(5.2\)](#)

Command	Expected output
gl diff	<pre>Diff of file "fit.py" 1 line added 1 line removed @@ -1,4 +1,4 @@ 1 -#!/usr/bin/python 1 +#!/usr/bin/env python 2 2 3 3 import argparse 4 4</pre>

[go back to task 5 \(5.2\)](#)

Command	Expected output
<code>gl history -c -v -l 1</code>	<pre>89139ef fix shebang Diff of file "fit.py" 1 line added 1 line removed @@ -1,4 +1,4 @@ 1 -#!/usr/bin/python 1 +#!/usr/bin/env python 2 2 3 3 import argparse 4 4</pre>
<code>gl history -c</code>	<pre>89139ef fix shebang Merge commit Merges: 9c54f0d 76c132f 01b5c78 Merge branch 'feat/kilos' into tmp 76c132f kilos improvements 68c23cf kilos feature 9c54f0d fix error checking bug 553d581 added readme 0e032fd first cut at fit-cli app f821dce Initialize repository</pre>

[go back to task 5 \(5.3\)](#)

Command	Expected output
<code>gl status</code>	<p>On branch feat/meters, repo-directory //</p> <p>You are in the middle of a fuse; all conflicts must be resolved before committing</p> <ul style="list-style-type: none">→ use <code>gl fuse --abort</code> to go back to the state before the fuse→ use <code>gl resolve <f></code> to mark file <code>f</code> as resolved→ once you solved all conflicts do <code>gl commit</code> to continue <p>Tracked files with modifications:</p> <ul style="list-style-type: none">→ these will be automatically considered for commit→ use <code>gl untrack <f></code> if you don't want to track changes to file <code>f</code>→ if file <code>f</code> was committed before, use <code>gl checkout <f></code> to discard local changes <p>fit.py (with conflicts)</p> <p>Untracked files:</p> <ul style="list-style-type: none">→ these won't be considered for commit→ use <code>gl track <f></code> if you want to track changes to file <code>f</code> <p>There are no untracked files to list</p>

go back to task 5 (5.3)

1) Update rmb to match:

```
def rmb(gender, age, weight, height, use_kg=False, use_m=False):
    w_const = {
        'female': 9.56 if use_kg else 4.35,
        'male': 13.75 if use_kg else 6.25
    }
    h_const = {
        'female': 1.8 if use_m else 4.7,
        'male': 5 if use_m else 12.7
    }
    if gender == 'female':
        return (
            655 + w_const[gender] * weight + h_const[gender] * height -
            4.7 * age) * 1.1
    else:
        return (
            66 + w_const[gender] * weight + h_const[gender] * height -
            6.76 * age) * 1.1
```

go back to task 5 (5.3)

Com mand	Expected output
gl diff	Diff of file "fit.py" 17 lines added 5 lines removed @@ -1,4 +1,4 @@ 1 -#!/usr/bin/python 1 +#!/usr/bin/env python 2 2 3 3 import argparse 4 4 @@ -14,23 +14,35 @@ 14 14 parser.add_argument(15 15 '-k', '--kilos', action='store_true', 16 16 help='if true, then the weight given as input is interpreted as kg') 17 + parser.add_argument(18 + '-m', '--meters', action='store_true', 19 + help='if true, the height input will be interpreted in meters') 17 20 args = parser.parse_args() 18 21 19 22 result = rmb(20 - args.gender, args.age, args.weight, args.height, use_kg=args.kilos) 23 + args.gender, args.age, args.weight, args.height, 24 + use_kg=args.kilos, use_m=args.meters) 21 25 22 26 print('Your resting metabolic rate is {0}'.format (result))

gl diff (con t)	23 27 24 28 25 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	-def rmb(gender, age, weight, height, use_kg=False): +def rmb(gender, age, weight, height, use_kg=False, use_m=False): w_const = { 'female': 9.56 if use_kg else 4.35, 'male': 13.75 if use_kg else 6.25 } + h_const = { + 'female': 1.8 if use_m else 4.7, + 'male': 5 if use_m else 12.7 + } if gender == 'female': - return (655 + w_const[gender] * weight + 4.7 * height - 4.7 * age) * 1.1 + return (+ 655 + w_const[gender] * weight + h_const[gender] * height - + 4.7 * age) * 1.1 else: - return (66 + w_const[gender] * weight + 12.7 * height - 6.76 * age) * 1.1 + return (+ 66 + w_const[gender] * weight + h_const[gender] * height - + 6.76 * age) * 1.1 if __name__ == '__main__':
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go back to task 5 (5.3)

Command	Expected output
<pre>gl history -c -v -l 1</pre>	<pre>da4cdbe meters feature Diff of file "fit.py" 17 lines added 5 lines removed @@ -1,4 +1,4 @@ 1 -#!/usr/bin/python 1 +#!/usr/bin/env python 2 2 3 3 import argparse 4 4 @@ -14,23 +14,35 @@ 14 14 parser.add_argument(15 15 '-k', '--kilos', action='store_true', 16 16 help='if true, then the weight given as input is interpreted as kg') 17 + parser.add_argument(18 + '-m', '--meters', action='store_true', 19 + help='if true, the height input will be interpreted in meters') 17 20 args = parser.parse_args() 18 21 19 22 result = rmb(20 - args.gender, args.age, args.weight, args.height, use_kg=args. kilos) 23 + args.gender, args.age, args.weight, args.height, 24 + use_kg=args.kilos, use_m=args.meters) 21 25 22 26 print('Your resting metabolic rate is {}'.format(result))</pre>

<pre>gl history -c</pre>	<pre>23 27 24 28 25 -def rmb(gender, age, weight, height, use_kg=False): 29 +def rmb(gender, age, weight, height, use_kg=False, use_m=False): 26 30 w_const = { 27 31 'female': 9.56 if use_kg else 4.35, 28 32 'male': 13.75 if use_kg else 6.25 29 33 } 34 + h_const = { 35 + 'female': 1.8 if use_m else 4.7, 36 + 'male': 5 if use_m else 12.7 37 + } 30 38 if gender == 'female': 31 39 - return (655 + w_const[gender] * weight + 4.7 * height - 4.7 * age) * 1.1 40 + return (41 + 655 + w_const[gender] * weight + h_const[gender] * height - 42 + 4.7 * age) * 1.1 32 42 else: 33 43 - return (66 + w_const[gender] * weight + 12.7 * height - 6.76 * age) * 1.1 44 + return (45 + 66 + w_const[gender] * weight + h_const[gender] * height - 46 + 6.76 * age) * 1.1 34 46 35 47 36 48 if __name__ == '__main__':</pre>
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<pre>gl history -c</pre>	<pre>da4cdbe meters feature Merge commit Merges: 9c54f0d 76c132f 01b5c78 Merge branch 'feat/kilos' into tmp 76c132f kilos improvements 68c23cf kilos feature 9c54f0d fix error checking bug 553d581 added readme 0e032fd first cut at fit-cli app f821dce Initialize repository</pre>
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Material for Task 6

[go back to task 6 \(6.1\)](#)

Command	Expected output
gl branch	<p>List of branches:</p> <ul style="list-style-type: none">→ do gl branch -c to create branch b→ do gl branch -d to delete branch b→ do gl switch to switch to branch b→ * = current branch <p>feat/kilos feat/meters * master (upstream is origin/master)</p>

go back to task 6 (6.1)

1) Update rmb to match:

```
def rmb(gender, age, weight, height, use_kg=False, use_m=False):
    const = {
        'weight': {
            'female': 9.56 if use_kg else 4.35,
            'male': 13.75 if use_kg else 6.25
        },
        'height': {
            'female': 1.8 if use_m else 4.7,
            'male': 5 if use_m else 12.7
        }
    }
    if gender == 'female':
        return (
            655 + const['weight'][gender] * weight +
            const['height'][gender] * height - 4.7 * age) * 1.1
    else:
        return (
            66 + const['weight'][gender] * weight +
            const['height'][gender] * height - 6.76 * age) * 1.1
```

[go back to task 6 \(6.1\)](#)

Command	Expected output
gl diff	<pre>Diff of file "fit.py" 13 lines added 11 lines removed @@ -27,22 +27,24 @@ 27 27 28 28 29 29 def rmb(gender, age, weight, height, use_kg=False, use_m=False): 30 - w_const = { 31 - 'female': 9.56 if use_kg else 4.35, 32 - 'male': 13.75 if use_kg else 6.25 33 - } 34 - h_const = { 35 - 'female': 1.8 if use_m else 4.7, 36 - 'male': 5 if use_m else 12.7 37 38 30 + const = { 39 31 + 'weight': { 40 32 + 'female': 9.56 if use_kg else 4.35, 41 33 + 'male': 13.75 if use_kg else 6.25 42 34 + }, 43 35 + 'height': { 44 36 + 'female': 1.8 if use_m else 4.7, 45 37 + 'male': 5 if use_m else 12.7 46 38 + } 47 39 } 48 40 if gender == 'female': 49 41 return (50 42 - 655 + w_const[gender] * weight + h_const[gender] * height - 51 43 - 4.7 * age) * 1.1 52 44 + 655 + const['weight'][gender] * weight + 53 45 + const['height'][gender] * height - 4.7 * age) * 1.1 54 46 else: 55 47 return (56 48 - 66 + w_const[gender] * weight + h_const[gender] * height - 57 49 - 6.76 * age) * 1.1 58 50 + 66 + const['weight'][gender] * weight + 59 51 + const['height'][gender] * height - 6.76 * age) * 1.1 60 61 46 48 62 47 49 63 48 50 if __name__ == '__main__':</pre>

[go back to task 6 \(6.1\)](#)

Command	Expected output
<pre>gl history -c -v -l 1</pre>	<pre>fa1cef8 join const dicts Diff of file "fit.py" 13 lines added 11 lines removed @@ -27,22 +27,24 @@ 27 27 28 28 29 29 def rmb(gender, age, weight, height, use_kg=False, use_m=False): 30 - w_const = { 31 - 'female': 9.56 if use_kg else 4.35, 32 - 'male': 13.75 if use_kg else 6.25 33 - } 34 - h_const= { 35 - 'female': 1.8 if use_m else 4.7, 36 - 'male': 5 if use_m else 12.7 37 38 30 + const = { 39 + 'weight': { 40 + 'female': 9.56 if use_kg else 4.35, 41 + 'male': 13.75 if use_kg else 6.25 42 + }, 43 + 'height': { 44 + 'female': 1.8 if use_m else 4.7, 45 + 'male': 5 if use_m else 12.7 46 + } 47 48 37 39 }</pre>

<pre>gl histor y -c - v -l 1 (cont)</pre>	<pre>38 40 if gender == 'female': 39 41 return (40 - 655 + w_const[gender] * weight + h_const 41 [gender] * height - 42 - 4.7 * age) * 1.1 43 + 655 + const['weight'][gender] * weight + 44 + const['height'][gender] * height - 4.7 * age) 45 * 1.1 46 44 else: 47 45 return (48 - 66 + w_const[gender] * weight + h_const 49 [gender] * height - 50 - 6.76 * age) * 1.1 51 + 66 + const['weight'][gender] * weight + 52 + const['height'][gender] * height - 6.76 * 53 age) * 1.1 54 46 48 55 47 49 56 48 50 if __name__ == '__main__':</pre>
---	--

<pre>gl history -c</pre>	<pre>fa1cef8 join const dicts Merge commit Merges: 89139ef da4cdb ee530ee Merge branch 'feat/meters' into tmp da4cdb meters feature 89139ef fix shebang Merge commit Merges: 9c54f0d 76c132f 01b5c78 Merge branch 'feat/kilos' into tmp 76c132f kilos improvements 68c23cf kilos feature 9c54f0d fix error checking bug 553d581 added readme 0e032fd first cut at fit-cli app f821dce Initialize repository</pre>
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[go back to task 6 \(6.2\)](#)

Command	Expected output
<code>gl status</code>	<pre>On branch master, repo-directory //</pre> <p>Tracked files with modifications:</p> <ul style="list-style-type: none">→ these will be automatically considered for commit→ use <code>gl untrack <f></code> if you don't want to track changes to file <code>f</code>→ if file <code>f</code> was committed before, use <code>gl checkout <f></code> to discard local changes <p>There are no tracked files with modifications to list</p> <p>Untracked files:</p> <ul style="list-style-type: none">→ these won't be considered for commit→ use <code>gl track <f></code> if you want to track changes to file <code>f</code> <p>There are no untracked files to list</p>

go back to task 6 (6.2)

- 1) After line 3 (i.e., after `import argparse`) add the following text in a new line:

```
import collections
```

- 2) Update `rmb` to match:

```
def rmb(gender, age, weight, height, use_kg=False, use_m=False):
    Const = collections.namedtuple('Const', ['weight', 'height'])
    const = Const(
        {'female': 9.56 if use_kg else 4.35,
         'male': 13.75 if use_kg else 6.25},
        {'female': 1.8 if use_m else 4.7,
         'male': 5 if use_m else 12.7})
    if gender == 'female':
        return (
            655 + const.weight[gender] * weight +
            const.height[gender] * height - 4.7 * age) * 1.1
    else:
        return (
            66 + const.weight[gender] * weight +
            const.height[gender] * height - 6.76 * age) * 1.1
```

[go back to task 6 \(6.2\)](#)

Command	Expected output
gl diff	<pre>Diff of file "fit.py" 11 lines added 12 lines removed @@ -1,6 +1,7 @@ 1 1 #!/usr/bin/env python 2 2 3 3 import argparse 4 4 +import collections 5 5 6 6 def main(): @@ -27,22 +28,20 @@ 27 28 28 29 29 30 def rmb(gender, age, weight, height, use_kg=False, use_m=False): 30 - w_const = { 31 - 'female': 9.56 if use_kg else 4.35, 32 - 'male': 13.75 if use_kg else 6.25 33 - } 34 - h_const= { 35 - 'female': 1.8 if use_m else 4.7, 36 - 'male': 5 if use_m else 12.7 37 - }</pre>

gl diff	<pre>31 + Const = collections.namedtuple('Const', ['weight', 'height']) 32 + const = Const(33 + {'female': 9.56 if use_kg else 4.35, 34 + 'male': 13.75 if use_kg else 6.25}, 35 + {'female': 1.8 if use_m else 4.7, 36 + 'male': 5 if use_m else 12.7}) 38 37 if gender == 'female': 39 38 return (40 - 655 + w_const[gender] * weight + h_const[gender] * height - 41 - 4.7 * age) * 1.1 39 + 655 + const.weight[gender] * weight + 40 + const.height[gender] * height - 4.7 * age) * 1.1 42 41 else: 43 42 return (44 - 66 + w_const[gender] * weight + h_const[gender] * height - 45 - 6.76 * age) * 1.1 43 + 66 + const.weight[gender] * weight + 44 + const.height[gender] * height - 6.76 * age) * 1.1 46 45 47 46 48 47 if __name__ == '__main__':</pre>
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[go back to task 6 \(6.2\)](#)

Command	Expected output
gl history -c -v -l 1	Diff of file "fit.py" 11 lines added 12 lines removed @@ -1,6 +1,7 @@ 1 1 #!/usr/bin/env python 2 2 3 3 import argparse 4 4 +import collections 5 5 6 6 def main(): @@ -27,22 +28,20 @@ 27 28 28 29 29 30 def rmb(gender, age, weight, height, use_kg=False, use_m=False): 30 - w_const = { 31 - 'female': 9.56 if use_kg else 4.35, 32 - 'male': 13.75 if use_kg else 6.25 33 - } 34 - h_const = { 35 - 'female': 1.8 if use_m else 4.7, 36 - 'male': 5 if use_m else 12.7 37 - }

gl history -c -v -l 1	31 + Const = collections.namedtuple('Const', ['weight', 'height']) 32 + const = Const(33 + {'female': 9.56 if use_kg else 4.35, 34 + 'male': 13.75 if use_kg else 6.25}, 35 + {'female': 1.8 if use_m else 4.7, 36 + 'male': 5 if use_m else 12.7}) 37 + if gender == 'female': 38 + return (39 + 655 + w_const[gender] * weight + h_const[gender] * height - 40 + 4.7 * age) * 1.1 41 + 655 + const.weight[gender] * weight + 42 + const.height[gender] * height - 4.7 * age) * 1.1 43 + else: 44 + return (45 + 66 + w_const[gender] * weight + h_const[gender] * height - 46 + 6.76 * age) * 1.1 47 + 66 + const.weight[gender] * weight + 48 + const.height[gender] * height - 6.76 * age) * 1.1 49 + if __name__ == '__main__':
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gl history -c	84607c8 switch to using nt for consts Merge commit Merges: 89139ef da4cdbe ee530ee Merge branch 'feat/meters' into tmp da4cdbe meters feature 89139ef fix shebang Merge commit Merges: 9c54f0d 76c132f 01b5c78 Merge branch 'feat/kilos' into tmp 76c132f kilos improvements 68c23cf kilos feature 9c54f0d fix error checking bug 553d581 added readme 0e032fd first cut at fit-cli app f821dce Initialize repository
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