

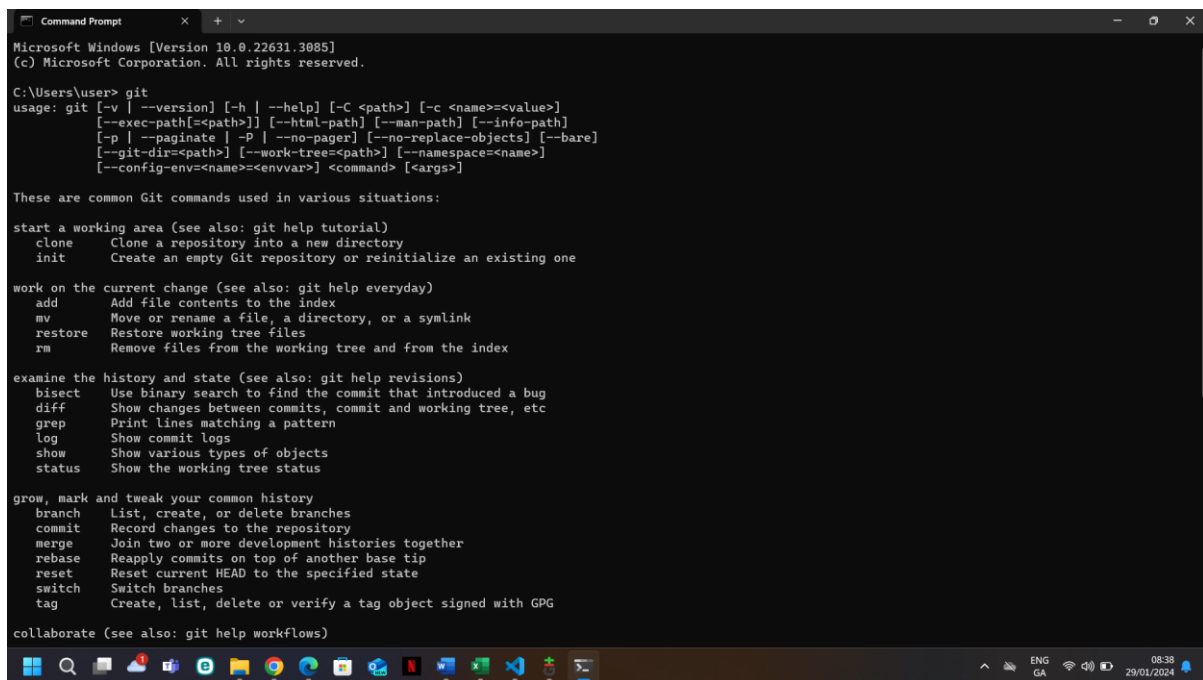
Programming for data science: Assignment 1

Student ID: 23202109

Student name: Tia Hughes Keane

https://github.com/tiahk224/CT5198_ASSIGN1_AY2324_TIAHUGHESKEANE

I began by re-reading over the lecture notes from previous weeks. After creating my github account, I created a new repository. I followed all of the steps in the Git_Installation_Guide_KarlMason.pdf, which proved helpful. I then checked that github was installed and working properly on my laptop by comparing my output to the one in the installation guide.



```
C:\Users\user> git
Microsoft Windows [Version 10.0.22631.3085]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user> git
usage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
           [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           [--config-env=<name>=<envvar>] <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
  clone      Clone a repository into a new directory
  init       Create an empty Git repository or reinitialize an existing one

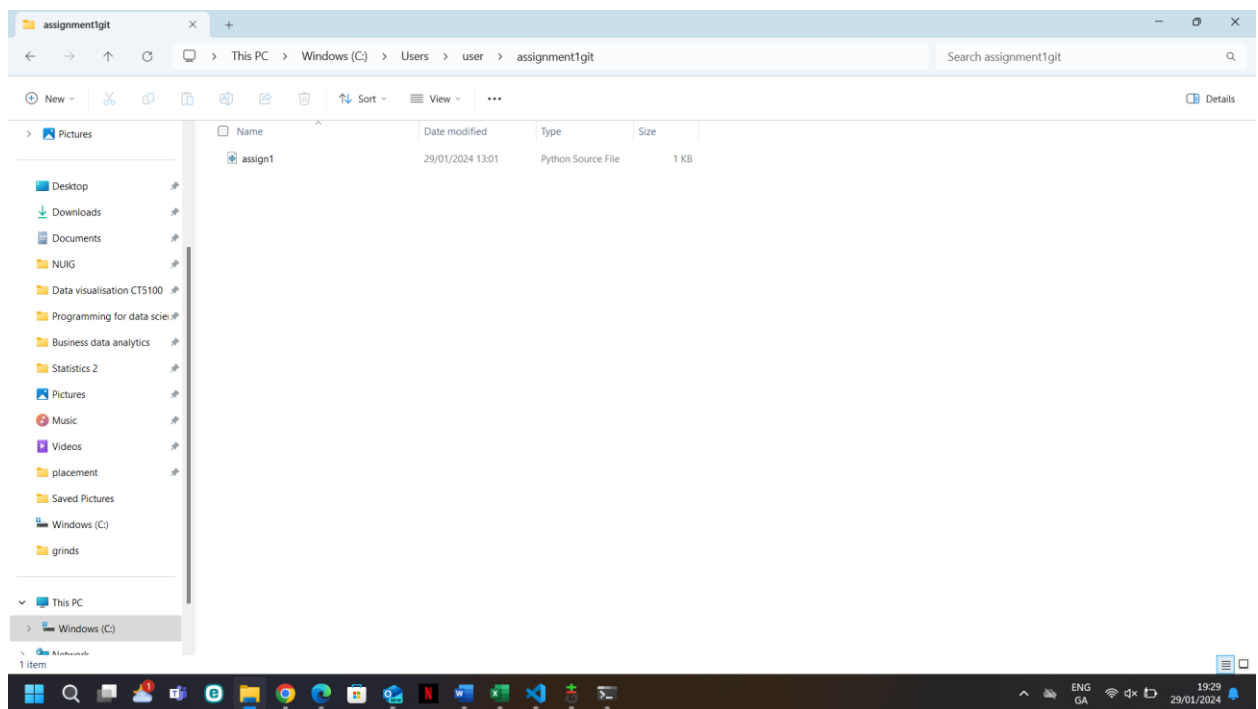
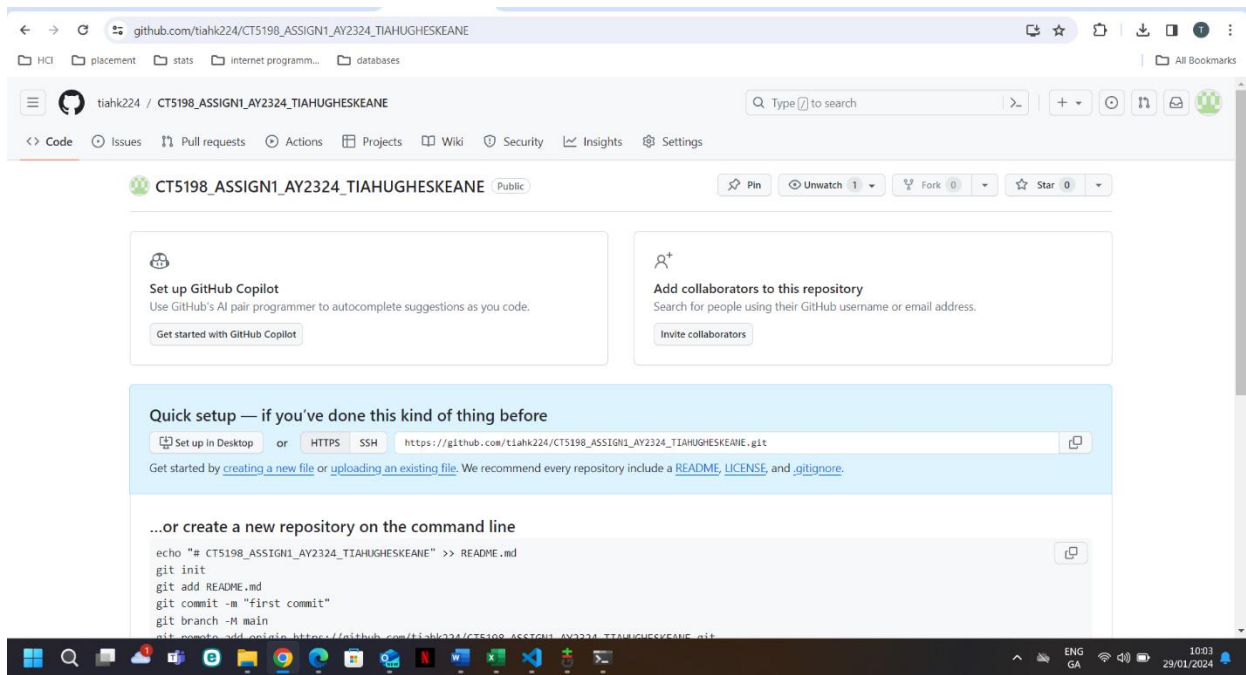
work on the current change (see also: git help everyday)
  add        Add file contents to the index
  mv         Move or rename a file, a directory, or a symlink
  restore    Restore working tree files
  rm         Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
  bisect     Use binary search to find the commit that introduced a bug
  diff       Show changes between commits, commit and working tree, etc
  grep       Print lines matching a pattern
  log        Show commit logs
  show       Show various types of objects
  status     Show the working tree status

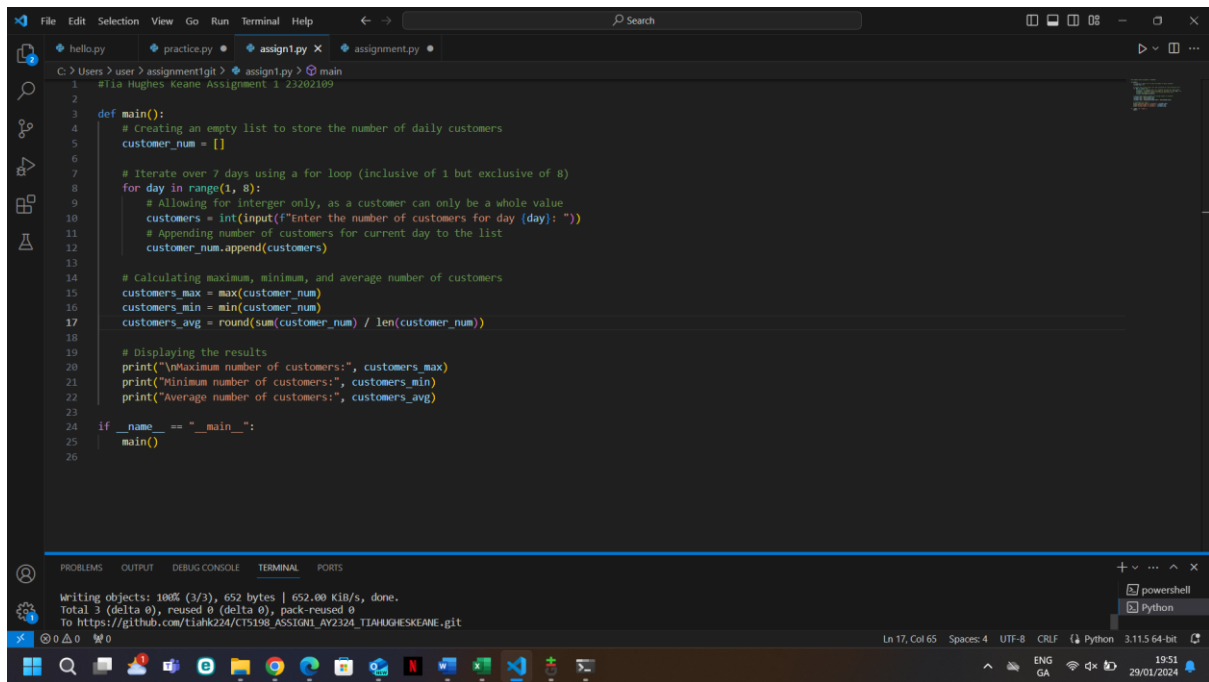
grow, mark and tweak your common history
  branch     List, create, or delete branches
  commit     Record changes to the repository
  merge      Join two or more development histories together
  rebase     Reapply commits on top of another base tip
  reset      Reset current HEAD to the specified state
  switch     Switch branches
  tag        Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
```

I created a new public repository. I then created a folder on my laptop called assignment1git, and inside this, created a workbook called assign1.py to work on my python code.



Using Visual studio code as my IDE, I began by defining my function. I was a little bit rusty with Python from being off over Christmas so I went online to W3Schools to refresh my knowledge of lists, loops, and built in functions such as min/max. I wrote my python program that included a list of the number of customers a business had each day. Then I used a for loop to input the number of customers each day over a 7 day period. As seen in my python code, the range values go from (1,8). This is actually 1-7 as the range function starts from 0 by default, and increments by 1, stopping before a specified number. I then got the maximum, minimum and average number of customers for the week using the max, min, and avg built in functions. To solve the decimal point issue, I used the round function to return a floating point number (rounded to the nearest integer).



```
File Edit Selection View Go Run Terminal Help
C:\Users\user> assignment1git > assign1.py > main
1 #Tia Hughes Keane Assignment 1 23202109
2
3 def main():
4     # Creating an empty list to store the number of daily customers
5     customer_num = []
6
7     # Iterate over 7 days using a for loop (inclusive of 1 but exclusive of 8)
8     for day in range(1, 8):
9         # Allowing for integer only, as a customer can only be a whole value
10        customers = int(input(f"Enter the number of customers for day {day}: "))
11        # Appending number of customers for current day to the list
12        customer_num.append(customers)
13
14    # Calculating maximum, minimum, and average number of customers
15    customers_max = max(customer_num)
16    customers_min = min(customer_num)
17    customers_avg = round(sum(customer_num) / len(customer_num))
18
19    # Displaying the results
20    print("\nMaximum number of customers:", customers_max)
21    print("Minimum number of customers:", customers_min)
22    print("Average number of customers:", customers_avg)
23
24    if __name__ == "__main__":
25        main()
26
Writing objects: 100% (3/3), 652 bytes | 652.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/tiahk224/CT5198_ASSIGN1_AY2324_TIAHUGHESKEANE.git
```

I then used git to initialise local repository on my lapyop and then linked it to my repository, then pushed this to the Github repo.

Git commands:

git init

git add ./assign1py

git commit -m 'initial commit'

git remote add origin https://github.com/tiahk224/CT5198_ASSIGN1_AY2324_TIAHUGHESKEANE

git branch -M main

git push -u origin main

github.com/tiahk224/CT5198_ASSIGN1_AY2324_TIAHUGHESKEANE

HC1 placement stats internet programm... databases

tiahk224 / CT5198_ASSIGN1_AY2324_TIAHUGHESKEANE

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

CT5198_ASSIGN1_AY2324_TIAHUGHESKEANE Public

Pin Unwatch 1 Fork 0 Star 0

main 1 Branch 0 Tags

Go to file Add file Code

tiahk224 initial commit c9bfcd2 · 6 hours ago 1 Commits

assign1.py initial commit 6 hours ago

README

Add a README

About

No description, website, or topics provided.

Activity

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Languages

20:05 29/01/2024