**Student:**

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**Assignment 4: Object-Oriented Design & Programming**

**Due Date: Dec 14th, 2024**

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# Program Introduction

This program uses collections to store & manage complex data structure for the product class and uses file persistence to save and load data between application runtime sessions.

# Program Code

The program have the following modules:

o **Main.py**: Implements the interactivity with the user (inputs/outputs). Call the various methods of the other modules based on user input.

Created following methods:

* ShowMainMenu(): This method would provide the options for thefollowing options to be selected by the user:
  + - Add Product
    - View Product
    - Edit Product
    - Delete Product
* \_\_init\_\_(): It is the constructor for the Main class.
* Choice\_add\_product(): option selected by the user to add a product
* Run(): method to call ShowMainMenu()
* get\_user\_input\_float: This function makes sure that if input float is greater than minimum value or less than maximum value then you return the input float or if this is not the thing then print incorrect value
* get\_user\_input\_Integer: This function makes sure that if input integer is greater than minimum value or less than maximum value then you return the input integer or if this is not the thing then print incorrect value
* choice\_view\_Products: option selected by the user to view a product
* choice\_edit\_Product: option selected by the user to edit a product
* choice\_delete\_Product: option selected by the user to delete a product

o **Product.py**: Represents a Product class.

created following methods:

\_\_init\_\_(): It is the constructor for the Product class

o **Inventory\_Manager.py**: Implements the business logic required for Adding, updating, searching and deleting products.

created following methods:

* **\_\_init\_\_** constructor to initializes the instance of the class Inventory\_Manager.
  + bank\_Name: Attribute of the bank class set at the time of initialization
* add\_Product: Method to Add product to the existing Product list
* view\_Product: Method to view entire Product list
* edit\_Product: Method to edit product to the existing Product list
* delete\_Product: Method to delete product from the existing Product list
* delete\_product\_list: Method to delete/empty the global product list after storing data in the file.

o **Data\_Persistence\_Management.py**: Class to save and load product data to/from file storage.

created following methods:

* load\_Product\_Data\_From\_File: Load Product Data from the file storage if the product data file exists.
* save\_Product\_Data\_From\_File: Save Product Data to the file storage.
* delete\_product\_list: Method to delete/empty the global product list after storing data in the file.

|  |  |  |  |
| --- | --- | --- | --- |
| No: | Object | Datatype: User-defined Class | Datatype: Predefined class/type (python) |
| 1 | Main | Main | * \_**\_init\_\_** constructor to initialize the instance of the class Main |
| 2 | Inventory\_Manager | Inventory\_Manager | * \_**\_init\_\_** constructor to initialize the instance of the class Inventory Manager |
| 3 | Product | Product | * \_\_init\_\_ constructor to initialize the instance of the class Product * add\_Product() Method to Add product to the existing Product list * view\_Product() Method to view entire Product list * edit\_Product() * Method to edit product to the existing Product list * delete\_Product() Method to delete product from the existing Product list * delete\_product\_list() Method to delete/empty the global product list after storing data in the file. |
| 4 | Data\_Persistence  Management | Data\_Persistence\_Management | * \_\_init\_\_: constructor to initialize the instance of the class Data\_Persistence\_Management * load\_Product\_Data\_From\_File: Load Product Data from the file storage if the product data file exists. * save\_Product\_Data\_From\_File: Save Product Data to the file storage. * delete\_product\_list: Method to delete/empty the global product list after storing data in the file. |

**UML Class Diagram**

**A diagram of a software server

Description automatically generated with medium confidence**

**Assignment Report:**

1. First, I wrote the menu options for showMainMenu in Main class.
2. Then I implemented Product and Inventory\_Management classes to implement logic for :
   * + Add Product
     + View Product
     + Edit Product
     + Delete Product
3. Then I implemented Data\_Persistent\_Management class to :
   1. Save data in the file
   2. Load data from the file.
4. Then I moved some of the program logic to Main module and used the three classes and their relevant methods to implement the program logic.
5. Finally, my code was efficiently organized by using classes.
6. The implementation was tidy and easy to handle since distinct functionalities were kept in different classes. Code structure and variable naming best practices were emphasized. I have implemented basic logic to check user input based on attribute types. However, this could be enhanced further by adding better error messages and retry logic.
7. To ensure the simulation works well in a variety of circumstances, load testing should be done using much larger data combinations.

# GIT Output

*2024-12-14* *22:30:07.874* [info] [main] Log level: Info

*2024-12-14* *22:30:07.874* [info] [main] Validating found git in: "C:\Program Files\Git\cmd\git.exe"

*2024-12-14* *22:30:07.874* [info] [main] Using git "2.46.2.windows.1" from "C:\Program Files\Git\cmd\git.exe"

*2024-12-14* *22:30:07.874* [info] [Model][doInitialScan] Initial repository scan started

*2024-12-14* *22:30:07.874* [info] > git rev-parse --show-toplevel [179ms]

*2024-12-14* *22:30:07.911* [info] > git rev-parse --git-dir --git-common-dir [64ms]

*2024-12-14* *22:30:07.927* [info] [Model][openRepository] Opened repository: c:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG

*2024-12-14* *22:30:07.947* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *22:30:08.013* [info] > git config --get commit.template [74ms]

*2024-12-14* *22:30:08.020* [info] > git rev-parse --show-toplevel [77ms]

*2024-12-14* *22:30:08.029* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [75ms]

*2024-12-14* *22:30:08.029* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:30:08.099* [info] > git rev-parse --git-dir --git-common-dir [73ms]

*2024-12-14* *22:30:08.105* [info] [Model][openRepository] Opened repository: c:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence

*2024-12-14* *22:30:08.136* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [93ms]

*2024-12-14* *22:30:08.156* [info] > git status -z -uall [120ms]

*2024-12-14* *22:30:08.176* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *22:30:08.233* [info] > git rev-parse --show-toplevel [115ms]

*2024-12-14* *22:30:08.236* [info] [Model][doInitialScan] Initial repository scan completed - repositories (2), closed repositories (0), parent repositories (0), unsafe repositories (0)

*2024-12-14* *22:30:08.237* [info] > git config --get commit.template [124ms]

*2024-12-14* *22:30:08.243* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [116ms]

*2024-12-14* *22:30:08.267* [info] > git config --get commit.template [92ms]

*2024-12-14* *22:30:08.274* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [94ms]

*2024-12-14* *22:30:08.274* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:30:08.283* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [120ms]

*2024-12-14* *22:30:08.284* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:30:08.284* [error] [GitHistoryProvider][resolveHEADMergeBase] Failed to resolve merge base for main: Error: No such branch: main.

*2024-12-14* *22:30:08.346* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [81ms]

*2024-12-14* *22:30:08.354* [info] > git status -z -uall [76ms]

*2024-12-14* *22:30:08.355* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [72ms]

*2024-12-14* *22:30:08.359* [info] > git status -z -uall [99ms]

*2024-12-14* *22:30:08.550* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [162ms]

*2024-12-14* *22:30:08.551* [info] > git config --get commit.template [171ms]

*2024-12-14* *22:30:08.578* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [207ms]

*2024-12-14* *22:30:08.651* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [167ms]

*2024-12-14* *22:30:08.660* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [170ms]

*2024-12-14* *22:30:08.661* [info] > git show --textconv :main.py [193ms]

*2024-12-14* *22:30:08.662* [info] > git show --textconv HEAD:main.py [188ms]

*2024-12-14* *22:30:08.751* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [189ms]

*2024-12-14* *22:30:08.753* [info] > git status -z -uall [196ms]

*2024-12-14* *22:30:08.771* [info] > git config --local branch.main.vscode-merge-base [185ms]

*2024-12-14* *22:30:08.787* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [131ms]

*2024-12-14* *22:30:08.790* [info] > git check-ignore -v -z --stdin [149ms]

*2024-12-14* *22:30:08.795* [info] > git check-ignore -v -z --stdin [149ms]

*2024-12-14* *22:30:08.881* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/origin/main refs/remotes/origin/main [104ms]

*2024-12-14* *22:30:08.900* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [140ms]

*2024-12-14* *22:30:08.935* [info] > git blame --root --incremental 2e9f881f746bc77699e168849aa0eb2e2260aa4e -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [128ms]

*2024-12-14* *22:30:08.961* [info] > git merge-base refs/heads/main refs/remotes/origin/main [73ms]

*2024-12-14* *22:30:08.970* [info] > git config --local branch.main.vscode-merge-base [65ms]

*2024-12-14* *22:30:09.035* [info] > git diff --name-status -z --diff-filter=ADMR 2e9f881f746bc77699e168849aa0eb2e2260aa4e...refs/remotes/origin/main [68ms]

*2024-12-14* *22:30:09.037* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/origin/main refs/remotes/origin/main [62ms]

*2024-12-14* *22:31:53.316* [info] > git fetch [486ms]

*2024-12-14* *22:31:54.250* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [671ms]

*2024-12-14* *22:31:54.491* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [893ms]

*2024-12-14* *22:31:54.686* [info] > git config --get commit.template [1258ms]

*2024-12-14* *22:31:54.687* [info] > git config --get commit.template [1451ms]

*2024-12-14* *22:31:54.738* [info] > git config --get commit.template [608ms]

*2024-12-14* *22:31:54.860* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *22:31:54.876* [info] > git show --textconv HEAD:main.py [161ms]

*2024-12-14* *22:31:54.876* [info] > git fetch [2022ms]

*2024-12-14* *22:31:54.877* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [387ms]

*2024-12-14* *22:31:54.912* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *22:31:54.941* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [70ms]

*2024-12-14* *22:31:54.944* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [88ms]

*2024-12-14* *22:31:54.946* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:31:55.007* [info] > git config --get commit.template [88ms]

*2024-12-14* *22:31:55.016* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [97ms]

*2024-12-14* *22:31:55.016* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:31:55.041* [info] > git show --textconv :main.py [101ms]

*2024-12-14* *22:31:55.044* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [73ms]

*2024-12-14* *22:31:55.106* [info] > git status -z -uall [77ms]

*2024-12-14* *22:31:55.109* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [72ms]

*2024-12-14* *22:31:55.184* [info] > git status -z -uall [125ms]

*2024-12-14* *22:31:55.185* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [98ms]

*2024-12-14* *22:31:56.027* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [45ms]

*2024-12-14* *22:31:56.036* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [50ms]

*2024-12-14* *22:31:56.075* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [44ms]

*2024-12-14* *22:31:56.086* [info] > git show --textconv HEAD:main.py [45ms]

*2024-12-14* *22:31:56.141* [info] > git show --textconv :main.py [55ms]

*2024-12-14* *22:38:01.732* [info] > git fetch [144ms]

*2024-12-14* *22:38:01.872* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *22:38:01.961* [info] > git config --get commit.template [94ms]

*2024-12-14* *22:38:01.984* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [105ms]

*2024-12-14* *22:38:01.984* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:38:02.082* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [83ms]

*2024-12-14* *22:38:02.131* [info] > git status -z -uall [139ms]

*2024-12-14* *22:38:02.503* [info] > git fetch [889ms]

*2024-12-14* *22:38:02.598* [info] > git config --get commit.template [83ms]

*2024-12-14* *22:38:02.599* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [73ms]

*2024-12-14* *22:38:02.685* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [67ms]

*2024-12-14* *22:38:02.694* [info] > git status -z -uall [85ms]

*2024-12-14* *22:38:03.770* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [105ms]

*2024-12-14* *22:38:03.779* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [105ms]

*2024-12-14* *22:38:03.906* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [128ms]

*2024-12-14* *22:38:03.908* [info] > git show --textconv HEAD:main.py [116ms]

*2024-12-14* *22:38:04.001* [info] > git show --textconv :main.py [81ms]

*2024-12-14* *22:38:10.208* [info] > git show --textconv :Inventory\_Manager.py [119ms]

*2024-12-14* *22:38:10.225* [info] > git show --textconv HEAD:Inventory\_Manager.py [129ms]

*2024-12-14* *22:38:10.229* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Inventory\_Manager.py [117ms]

*2024-12-14* *22:38:10.238* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Inventory\_Manager.py [132ms]

*2024-12-14* *22:38:10.300* [info] > git cat-file -s 23b73534d8832adaa23b5c40b50ba75710f20e60 [56ms]

*2024-12-14* *22:38:10.377* [info] > git blame --root --incremental 2e9f881f746bc77699e168849aa0eb2e2260aa4e -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Inventory\_Manager.py [60ms]

*2024-12-14* *22:45:18.881* [info] > git fetch [113ms]

*2024-12-14* *22:45:18.900* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *22:45:18.955* [info] > git config --get commit.template [63ms]

*2024-12-14* *22:45:18.962* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [54ms]

*2024-12-14* *22:45:18.962* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:45:19.035* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [59ms]

*2024-12-14* *22:45:19.049* [info] > git status -z -uall [78ms]

*2024-12-14* *22:45:19.959* [info] > git fetch [1183ms]

*2024-12-14* *22:45:20.022* [info] > git config --get commit.template [53ms]

*2024-12-14* *22:45:20.031* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [53ms]

*2024-12-14* *22:45:20.111* [info] > git status -z -uall [65ms]

*2024-12-14* *22:45:20.114* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [62ms]

*2024-12-14* *22:45:20.142* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *22:45:20.166* [info] > git config --get commit.template [56ms]

*2024-12-14* *22:45:20.197* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [55ms]

*2024-12-14* *22:45:20.197* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:45:20.261* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [51ms]

*2024-12-14* *22:45:20.263* [info] > git status -z -uall [60ms]

*2024-12-14* *22:45:21.495* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Inventory\_Manager.py [83ms]

*2024-12-14* *22:45:21.511* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Inventory\_Manager.py [79ms]

*2024-12-14* *22:45:21.590* [info] > git cat-file -s 23b73534d8832adaa23b5c40b50ba75710f20e60 [83ms]

*2024-12-14* *22:45:21.621* [info] > git show --textconv HEAD:Inventory\_Manager.py [88ms]

*2024-12-14* *22:45:21.677* [info] > git show --textconv :Inventory\_Manager.py [73ms]

*2024-12-14* *22:45:23.631* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [77ms]

*2024-12-14* *22:45:23.636* [info] > git show --textconv HEAD:main.py [88ms]

*2024-12-14* *22:45:23.638* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [77ms]

*2024-12-14* *22:45:23.638* [info] > git show --textconv :main.py [96ms]

*2024-12-14* *22:45:23.680* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [45ms]

*2024-12-14* *22:45:33.529* [info] > git show --textconv :Product.py [66ms]

*2024-12-14* *22:45:33.536* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Product.py [60ms]

*2024-12-14* *22:45:33.594* [info] > git cat-file -s 55f235e5ea8a7b3a0714f8fad30d4eb9e2f6918b [51ms]

*2024-12-14* *22:45:33.659* [info] > git blame --root --incremental 2e9f881f746bc77699e168849aa0eb2e2260aa4e -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Product.py [54ms]

*2024-12-14* *22:51:27.546* [info] > git fetch [134ms]

*2024-12-14* *22:51:27.560* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *22:51:27.619* [info] > git config --get commit.template [63ms]

*2024-12-14* *22:51:27.622* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [54ms]

*2024-12-14* *22:51:27.622* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:51:27.677* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [43ms]

*2024-12-14* *22:51:27.681* [info] > git status -z -uall [53ms]

*2024-12-14* *22:51:28.071* [info] > git fetch [605ms]

*2024-12-14* *22:51:28.133* [info] > git config --get commit.template [55ms]

*2024-12-14* *22:51:28.141* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [54ms]

*2024-12-14* *22:51:28.200* [info] > git status -z -uall [51ms]

*2024-12-14* *22:51:28.211* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [56ms]

*2024-12-14* *22:51:28.721* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *22:51:28.787* [info] > git config --get commit.template [70ms]

*2024-12-14* *22:51:28.789* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [68ms]

*2024-12-14* *22:51:28.790* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:51:28.856* [info] > git status -z -uall [59ms]

*2024-12-14* *22:51:28.867* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [55ms]

*2024-12-14* *22:51:29.335* [info] > git config --get commit.template [61ms]

*2024-12-14* *22:51:29.338* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [56ms]

*2024-12-14* *22:51:29.408* [info] > git status -z -uall [63ms]

*2024-12-14* *22:51:29.421* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [67ms]

*2024-12-14* *22:51:29.434* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Product.py [53ms]

*2024-12-14* *22:51:29.484* [info] > git cat-file -s 55f235e5ea8a7b3a0714f8fad30d4eb9e2f6918b [43ms]

*2024-12-14* *22:51:29.541* [info] > git show --textconv :Product.py [44ms]

*2024-12-14* *22:51:31.383* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Inventory\_Manager.py [72ms]

*2024-12-14* *22:51:31.387* [info] > git show --textconv :Inventory\_Manager.py [97ms]

*2024-12-14* *22:51:31.401* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Inventory\_Manager.py [85ms]

*2024-12-14* *22:51:31.405* [info] > git show --textconv HEAD:Inventory\_Manager.py [101ms]

*2024-12-14* *22:51:31.441* [info] > git cat-file -s 23b73534d8832adaa23b5c40b50ba75710f20e60 [54ms]

*2024-12-14* *22:57:21.762* [info] > git fetch [102ms]

*2024-12-14* *22:57:21.775* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *22:57:21.828* [info] > git config --get commit.template [59ms]

*2024-12-14* *22:57:21.838* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [64ms]

*2024-12-14* *22:57:21.838* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *22:57:21.902* [info] > git status -z -uall [60ms]

*2024-12-14* *22:57:21.907* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [58ms]

*2024-12-14* *22:57:22.292* [info] > git fetch [616ms]

*2024-12-14* *22:57:22.357* [info] > git config --get commit.template [57ms]

*2024-12-14* *22:57:22.366* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [61ms]

*2024-12-14* *22:57:22.439* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [60ms]

*2024-12-14* *22:57:22.440* [info] > git status -z -uall [67ms]

*2024-12-14* *22:57:23.626* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Inventory\_Manager.py [65ms]

*2024-12-14* *22:57:23.639* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Inventory\_Manager.py [69ms]

*2024-12-14* *22:57:23.851* [info] > git cat-file -s 23b73534d8832adaa23b5c40b50ba75710f20e60 [215ms]

*2024-12-14* *22:57:23.865* [info] > git show --textconv HEAD:Inventory\_Manager.py [68ms]

*2024-12-14* *22:57:23.916* [info] > git show --textconv :Inventory\_Manager.py [51ms]

*2024-12-14* *22:58:51.280* [info] > git show --textconv :Data\_Persistence\_Management.py [88ms]

*2024-12-14* *22:58:51.286* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Data\_Persistence\_Management.py [81ms]

*2024-12-14* *22:58:51.292* [info] > git show --textconv HEAD:Data\_Persistence\_Management.py [93ms]

*2024-12-14* *22:58:51.294* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Data\_Persistence\_Management.py [82ms]

*2024-12-14* *22:58:51.376* [info] > git cat-file -s c2e1c5ecdd55c22a31079ef6fdb58d7b974da45b [85ms]

*2024-12-14* *22:58:51.446* [info] > git blame --root --incremental 2e9f881f746bc77699e168849aa0eb2e2260aa4e -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Data\_Persistence\_Management.py [54ms]

*2024-12-14* *22:58:51.446* [info] fatal: no such path Data\_Persistence\_Management.py in 2e9f881f746bc77699e168849aa0eb2e2260aa4e

*2024-12-14* *23:03:49.970* [info] > git fetch [120ms]

*2024-12-14* *23:03:49.990* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:03:50.053* [info] > git config --get commit.template [71ms]

*2024-12-14* *23:03:50.054* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [64ms]

*2024-12-14* *23:03:50.054* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:03:50.111* [info] > git status -z -uall [51ms]

*2024-12-14* *23:03:50.114* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [49ms]

*2024-12-14* *23:03:50.391* [info] > git fetch [528ms]

*2024-12-14* *23:03:50.452* [info] > git config --get commit.template [54ms]

*2024-12-14* *23:03:50.461* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [54ms]

*2024-12-14* *23:03:50.530* [info] > git status -z -uall [60ms]

*2024-12-14* *23:03:50.555* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [53ms]

*2024-12-14* *23:15:26.840* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:15:26.940* [info] > git config --get commit.template [107ms]

*2024-12-14* *23:15:26.946* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [102ms]

*2024-12-14* *23:15:26.946* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:15:26.963* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Data\_Persistence\_Management.py [113ms]

*2024-12-14* *23:15:26.971* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Data\_Persistence\_Management.py [119ms]

*2024-12-14* *23:15:27.025* [info] > git fetch [207ms]

*2024-12-14* *23:15:27.029* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [75ms] (cancelled)

*2024-12-14* *23:15:27.039* [info] > git status -z -uall [89ms] (cancelled)

*2024-12-14* *23:15:27.042* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:15:27.047* [info] > git cat-file -s c2e1c5ecdd55c22a31079ef6fdb58d7b974da45b [80ms]

*2024-12-14* *23:15:27.076* [info] > git show --textconv HEAD:Data\_Persistence\_Management.py [99ms]

*2024-12-14* *23:15:27.102* [info] > git config --get commit.template [66ms]

*2024-12-14* *23:15:27.111* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [67ms]

*2024-12-14* *23:15:27.112* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:15:27.134* [info] > git show --textconv :Data\_Persistence\_Management.py [80ms]

*2024-12-14* *23:15:27.201* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [79ms]

*2024-12-14* *23:15:27.205* [info] > git status -z -uall [90ms]

*2024-12-14* *23:15:27.582* [info] > git fetch [758ms]

*2024-12-14* *23:15:27.639* [info] > git config --get commit.template [52ms]

*2024-12-14* *23:15:27.655* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [63ms]

*2024-12-14* *23:15:27.719* [info] > git status -z -uall [60ms]

*2024-12-14* *23:15:27.722* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [59ms]

*2024-12-14* *23:15:28.796* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Data\_Persistence\_Management.py [58ms]

*2024-12-14* *23:15:28.807* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\Data\_Persistence\_Management.py [62ms]

*2024-12-14* *23:15:28.860* [info] > git cat-file -s c2e1c5ecdd55c22a31079ef6fdb58d7b974da45b [61ms]

*2024-12-14* *23:15:28.891* [info] > git show --textconv HEAD:Data\_Persistence\_Management.py [78ms]

*2024-12-14* *23:15:28.917* [info] > git show --textconv :Data\_Persistence\_Management.py [51ms]

*2024-12-14* *23:15:34.573* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [87ms]

*2024-12-14* *23:15:34.578* [info] > git show --textconv :main.py [107ms]

*2024-12-14* *23:15:34.578* [info] > git show --textconv HEAD:main.py [102ms]

*2024-12-14* *23:15:34.583* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [85ms]

*2024-12-14* *23:15:34.620* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [44ms]

*2024-12-14* *23:20:44.176* [info] > git fetch [106ms]

*2024-12-14* *23:20:44.190* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:20:44.249* [info] > git config --get commit.template [65ms]

*2024-12-14* *23:20:44.253* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [63ms]

*2024-12-14* *23:20:44.253* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:20:44.324* [info] > git status -z -uall [65ms]

*2024-12-14* *23:20:44.331* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [63ms]

*2024-12-14* *23:20:44.795* [info] > git fetch [700ms]

*2024-12-14* *23:20:44.859* [info] > git config --get commit.template [57ms]

*2024-12-14* *23:20:44.864* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [55ms]

*2024-12-14* *23:20:44.921* [info] > git status -z -uall [49ms]

*2024-12-14* *23:20:44.932* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [54ms]

*2024-12-14* *23:20:46.027* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [62ms]

*2024-12-14* *23:20:46.039* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [56ms]

*2024-12-14* *23:20:46.086* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [53ms]

*2024-12-14* *23:20:46.108* [info] > git show --textconv HEAD:main.py [58ms]

*2024-12-14* *23:20:46.143* [info] > git show --textconv :main.py [47ms]

*2024-12-14* *23:24:13.592* [info] > git fetch [91ms]

*2024-12-14* *23:24:13.602* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:24:13.650* [info] > git config --get commit.template [53ms]

*2024-12-14* *23:24:13.653* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [51ms]

*2024-12-14* *23:24:13.653* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:24:13.724* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [59ms]

*2024-12-14* *23:24:13.725* [info] > git status -z -uall [67ms]

*2024-12-14* *23:24:14.048* [info] > git fetch [539ms]

*2024-12-14* *23:24:14.103* [info] > git config --get commit.template [49ms]

*2024-12-14* *23:24:14.106* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [46ms]

*2024-12-14* *23:24:14.163* [info] > git status -z -uall [51ms]

*2024-12-14* *23:24:14.164* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [47ms]

*2024-12-14* *23:24:15.376* [info] > git config --get commit.template [62ms]

*2024-12-14* *23:24:15.380* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [61ms]

*2024-12-14* *23:24:15.458* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [65ms]

*2024-12-14* *23:24:15.461* [info] > git status -z -uall [74ms]

*2024-12-14* *23:24:15.475* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [67ms]

*2024-12-14* *23:24:15.476* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [74ms]

*2024-12-14* *23:24:15.532* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [49ms]

*2024-12-14* *23:24:15.544* [info] > git show --textconv HEAD:main.py [56ms]

*2024-12-14* *23:24:15.585* [info] > git show --textconv :main.py [46ms]

*2024-12-14* *23:32:30.750* [info] > git check-ignore -v -z --stdin [68ms]

*2024-12-14* *23:36:37.521* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:36:37.563* [info] > git fetch [161ms]

*2024-12-14* *23:36:37.574* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:36:37.619* [info] > git config --get commit.template [104ms]

*2024-12-14* *23:36:37.630* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [110ms]

*2024-12-14* *23:36:37.630* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:36:37.634* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [106ms]

*2024-12-14* *23:36:37.646* [info] > git config --get commit.template [147ms]

*2024-12-14* *23:36:37.653* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [79ms]

*2024-12-14* *23:36:37.653* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:36:37.657* [info] > git config --get commit.template [88ms]

*2024-12-14* *23:36:37.711* [info] > git status -z -uall [70ms]

*2024-12-14* *23:36:37.713* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [68ms]

*2024-12-14* *23:36:37.723* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [58ms]

*2024-12-14* *23:36:37.731* [info] > git status -z -uall [69ms]

*2024-12-14* *23:36:38.133* [info] > git fetch [713ms]

*2024-12-14* *23:36:38.199* [info] > git config --get commit.template [59ms]

*2024-12-14* *23:36:38.207* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [62ms]

*2024-12-14* *23:36:38.274* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [53ms]

*2024-12-14* *23:36:38.279* [info] > git status -z -uall [64ms]

*2024-12-14* *23:36:39.378* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [68ms]

*2024-12-14* *23:36:39.386* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [72ms]

*2024-12-14* *23:36:39.454* [info] > git show --textconv HEAD:main.py [55ms]

*2024-12-14* *23:36:39.455* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [70ms]

*2024-12-14* *23:36:39.511* [info] > git show --textconv :main.py [47ms]

*2024-12-14* *23:36:42.663* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:36:42.748* [info] > git config --get commit.template [89ms]

*2024-12-14* *23:36:42.748* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [86ms]

*2024-12-14* *23:36:42.748* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:36:42.823* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [66ms]

*2024-12-14* *23:36:42.829* [info] > git status -z -uall [75ms]

*2024-12-14* *23:52:46.998* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:52:47.076* [info] > git config --get commit.template [94ms]

*2024-12-14* *23:52:47.076* [info] > git config --get commit.template [90ms]

*2024-12-14* *23:52:47.084* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [86ms]

*2024-12-14* *23:52:47.094* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [100ms]

*2024-12-14* *23:52:47.094* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:52:47.115* [info] > git fetch [158ms]

*2024-12-14* *23:52:47.118* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [16ms] (cancelled)

*2024-12-14* *23:52:47.128* [info] > git status -z -uall [30ms] (cancelled)

*2024-12-14* *23:52:47.135* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:52:47.169* [info] > git status -z -uall [81ms]

*2024-12-14* *23:52:47.175* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [82ms]

*2024-12-14* *23:52:47.196* [info] > git config --get commit.template [68ms]

*2024-12-14* *23:52:47.201* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [66ms]

*2024-12-14* *23:52:47.201* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:52:47.261* [info] > git status -z -uall [53ms]

*2024-12-14* *23:52:47.266* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [52ms]

*2024-12-14* *23:52:47.641* [info] > git fetch [678ms]

*2024-12-14* *23:52:47.702* [info] > git config --get commit.template [54ms]

*2024-12-14* *23:52:47.714* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [59ms]

*2024-12-14* *23:52:47.793* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [68ms]

*2024-12-14* *23:52:47.796* [info] > git status -z -uall [76ms]

*2024-12-14* *23:52:48.959* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [67ms]

*2024-12-14* *23:52:48.968* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [85ms]

*2024-12-14* *23:52:49.028* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [57ms]

*2024-12-14* *23:52:49.035* [info] > git show --textconv HEAD:main.py [68ms]

*2024-12-14* *23:52:49.122* [info] > git show --textconv :main.py [87ms]

*2024-12-14* *23:52:52.130* [info] [Git][getRemotes] No remotes found in the git config file

*2024-12-14* *23:52:52.176* [info] > git config --get commit.template [50ms]

*2024-12-14* *23:52:52.180* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [50ms]

*2024-12-14* *23:52:52.180* [warning] [Git][getBranch] No such branch: main

*2024-12-14* *23:52:52.234* [info] > git status -z -uall [51ms]

*2024-12-14* *23:52:52.239* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [52ms]

*2024-12-14* *23:52:53.159* [info] > git log --format=%H%n%aN%n%aE%n%at%n%ct%n%P%n%D%n%B -z --shortstat --diff-merges=first-parent -n50 --skip=0 --topo-order --decorate=full --stdin [82ms]

*2024-12-14* *23:52:53.914* [info] > git check-ignore -v -z --stdin [58ms]

*2024-12-14* *23:52:55.939* [info] > git show --textconv :.git/COMMIT\_EDITMSG [63ms]

*2024-12-14* *23:52:55.941* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\.git\COMMIT\_EDITMSG [60ms]

*2024-12-14* *23:52:56.006* [info] > git blame --root --incremental 2e9f881f746bc77699e168849aa0eb2e2260aa4e -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\.git\COMMIT\_EDITMSG [55ms]

*2024-12-14* *23:52:56.009* [info] fatal: no such path .git/COMMIT\_EDITMSG in 2e9f881f746bc77699e168849aa0eb2e2260aa4e

*2024-12-14* *23:52:56.285* [info] > git check-ignore -v -z --stdin [45ms]

*2024-12-14* *23:52:56.447* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\.git\COMMIT\_EDITMSG [42ms]

*2024-12-14* *23:52:56.493* [info] > git show --textconv :.git/COMMIT\_EDITMSG [42ms]

*2024-12-14* *23:53:55.738* [info] > git -c user.useConfigOnly=true commit --quiet [60584ms]

*2024-12-14* *23:53:55.738* [info] Aborting commit due to empty commit message.

*2024-12-14* *23:53:55.825* [info] > git config --get commit.template [82ms]

*2024-12-14* *23:53:55.831* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [63ms]

*2024-12-14* *23:53:55.887* [info] > git status -z -uall [53ms]

*2024-12-14* *23:53:55.893* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [55ms]

*2024-12-14* *23:53:55.990* [info] > git show --textconv :main.py [97ms]

*2024-12-14* *23:53:55.990* [info] > git show --textconv HEAD:main.py [89ms]

*2024-12-14* *23:53:55.998* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [92ms]

*2024-12-14* *23:53:56.002* [info] > git ls-tree -l HEAD -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [91ms]

*2024-12-14* *23:53:56.054* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [51ms]

*2024-12-14* *23:53:58.986* [info] > git show --textconv :.git/COMMIT\_EDITMSG [66ms]

*2024-12-14* *23:53:58.997* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\.git\COMMIT\_EDITMSG [69ms]

*2024-12-14* *23:53:59.724* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\.git\COMMIT\_EDITMSG [52ms]

*2024-12-14* *23:53:59.778* [info] > git show --textconv :.git/COMMIT\_EDITMSG [49ms]

*2024-12-14* *23:54:14.372* [info] > git -c user.useConfigOnly=true commit --quiet [15996ms]

*2024-12-14* *23:54:14.428* [info] > git config --get commit.template [51ms]

*2024-12-14* *23:54:14.428* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [47ms]

*2024-12-14* *23:54:14.509* [info] > git status -z -uall [77ms]

*2024-12-14* *23:54:14.514* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [78ms]

*2024-12-14* *23:54:14.542* [info] > git show --textconv :main.py [79ms]

*2024-12-14* *23:54:14.549* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [81ms]

*2024-12-14* *23:54:14.632* [info] > git merge-base refs/heads/main refs/remotes/origin/main [103ms]

*2024-12-14* *23:54:14.644* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [89ms]

*2024-12-14* *23:54:14.665* [info] > git config --get commit.template [94ms]

*2024-12-14* *23:54:14.671* [info] > git log --format=%H%n%aN%n%aE%n%at%n%ct%n%P%n%D%n%B -z --shortstat --diff-merges=first-parent -n50 --skip=0 --topo-order --decorate=full --stdin [110ms]

*2024-12-14* *23:54:14.675* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [98ms]

*2024-12-14* *23:54:14.716* [info] > git diff --name-status -z --diff-filter=ADMR 2e9f881f746bc77699e168849aa0eb2e2260aa4e...refs/remotes/origin/main [77ms]

*2024-12-14* *23:54:14.734* [info] > git blame --root --incremental 772c02cdc6078bf44c486463ab521af2e2be5e39 -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [77ms]

*2024-12-14* *23:54:14.751* [info] > git status -z -uall [70ms]

*2024-12-14* *23:54:14.756* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [70ms]

*2024-12-14* *23:54:15.732* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [72ms]

*2024-12-14* *23:54:15.807* [info] > git cat-file -s 5f464617702e849495c1a2e82ec5b8a80d923e19 [72ms]

*2024-12-14* *23:54:15.868* [info] > git show --textconv :main.py [56ms]

*2024-12-14* *23:54:24.606* [info] > git add -A -- . [202ms]

*2024-12-14* *23:54:25.179* [info] > git show --textconv :.git/COMMIT\_EDITMSG [63ms]

*2024-12-14* *23:54:25.185* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\.git\COMMIT\_EDITMSG [63ms]

*2024-12-14* *23:54:25.980* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\.git\COMMIT\_EDITMSG [54ms]

*2024-12-14* *23:54:26.035* [info] > git show --textconv :.git/COMMIT\_EDITMSG [47ms]

*2024-12-14* *23:54:28.644* [info] > git blame --root --incremental 772c02cdc6078bf44c486463ab521af2e2be5e39 -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\.git\COMMIT\_EDITMSG [65ms]

*2024-12-14* *23:54:28.644* [info] fatal: no such path .git/COMMIT\_EDITMSG in 772c02cdc6078bf44c486463ab521af2e2be5e39

*2024-12-14* *23:54:36.846* [info] > git -c user.useConfigOnly=true commit --quiet [12236ms]

*2024-12-14* *23:54:36.914* [info] > git config --get commit.template [62ms]

*2024-12-14* *23:54:36.914* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [57ms]

*2024-12-14* *23:54:36.981* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [58ms]

*2024-12-14* *23:54:36.982* [info] > git status -z -uall [63ms]

*2024-12-14* *23:54:37.108* [info] > git merge-base refs/heads/main refs/remotes/origin/main [116ms]

*2024-12-14* *23:54:37.156* [info] > git config --get commit.template [98ms]

*2024-12-14* *23:54:37.166* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [101ms]

*2024-12-14* *23:54:37.193* [info] > git log --format=%H%n%aN%n%aE%n%at%n%ct%n%P%n%D%n%B -z --shortstat --diff-merges=first-parent -n50 --skip=0 --topo-order --decorate=full --stdin [175ms]

*2024-12-14* *23:54:37.211* [info] > git show --textconv :main.py [107ms]

*2024-12-14* *23:54:37.214* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [106ms]

*2024-12-14* *23:54:37.228* [info] > git diff --name-status -z --diff-filter=ADMR 2e9f881f746bc77699e168849aa0eb2e2260aa4e...refs/remotes/origin/main [116ms]

*2024-12-14* *23:54:37.251* [info] > git status -z -uall [80ms]

*2024-12-14* *23:54:37.259* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [84ms]

*2024-12-14* *23:54:37.282* [info] > git cat-file -s 75fa95600345a8e964eb3d6716feeda1b017b1c3 [63ms]

*2024-12-14* *23:54:37.353* [info] > git blame --root --incremental dc647f63961c8bb0dd51d4e1d2592dbeaa866683 -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [55ms]

*2024-12-14* *23:54:38.173* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [47ms]

*2024-12-14* *23:54:38.232* [info] > git cat-file -s 75fa95600345a8e964eb3d6716feeda1b017b1c3 [55ms]

*2024-12-14* *23:54:38.283* [info] > git show --textconv :main.py [47ms]

*2024-12-14* *23:54:42.993* [info] > git log --oneline --cherry main...main@{upstream} -- [134ms]

*2024-12-14* *23:54:43.616* [info] > git pull --tags origin main [618ms]

*2024-12-14* *23:54:43.616* [info] From https://github.com/mhmukry/Assignment-4---Collections-and-persistence

 \* branch            main       -> FETCH\_HEAD

*2024-12-14* *23:54:44.843* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [53ms]

*2024-12-14* *23:54:44.901* [info] > git cat-file -s 75fa95600345a8e964eb3d6716feeda1b017b1c3 [55ms]

*2024-12-14* *23:54:44.966* [info] > git show --textconv :main.py [60ms]

*2024-12-14* *23:54:45.641* [info] > git push origin main:main [2019ms]

*2024-12-14* *23:54:45.641* [info] To https://github.com/mhmukry/Assignment-4---Collections-and-persistence.git

   2e9f881..dc647f6  main -> main

*2024-12-14* *23:54:45.702* [info] > git config --get commit.template [57ms]

*2024-12-14* *23:54:45.712* [info] > git for-each-ref --format=%(refname)%00%(upstream:short)%00%(objectname)%00%(upstream:track)%00%(upstream:remotename)%00%(upstream:remoteref) --ignore-case refs/heads/main refs/remotes/main [63ms]

*2024-12-14* *23:54:45.787* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [61ms]

*2024-12-14* *23:54:45.789* [info] > git status -z -uall [68ms]

*2024-12-14* *23:54:45.852* [info] > git merge-base refs/heads/main refs/remotes/origin/main [56ms]

*2024-12-14* *23:54:45.880* [info] > git log --format=%H%n%aN%n%aE%n%at%n%ct%n%P%n%D%n%B -z --shortstat --diff-merges=first-parent -n50 --skip=0 --topo-order --decorate=full --stdin [75ms]

*2024-12-14* *23:54:45.912* [info] > git diff --name-status -z --diff-filter=ADMR dc647f63961c8bb0dd51d4e1d2592dbeaa866683...refs/remotes/origin/main [55ms]

*2024-12-14* *23:54:46.866* [info] > git ls-files --stage -- C:\Users\zmukr\Downloads\Sheridan\Semester 1\Programming principles - PROG\Assignment 4\Assignment-4---Collections-and-persistence\main.py [44ms]

*2024-12-14* *23:54:46.912* [info] > git cat-file -s 75fa95600345a8e964eb3d6716feeda1b017b1c3 [44ms]

*2024-12-14* *23:54:46.964* [info] > git show --textconv :main.py [47ms]

*2024-12-14* *23:55:04.948* [info] > git log --format=%H%n%aN%n%aE%n%at%n%ct%n%P%n%D%n%B -z --shortstat --diff-merges=first-parent -n50 --skip=0 --topo-order --decorate=full --stdin [138ms]

*2024-12-14* *23:55:06.544* [info] > git for-each-ref --sort -committerdate --format %(refname) %(objectname) %(\*objectname) [64ms]

# Program Logic / Flow

**Starting option for the program**

A white background with black text

Description automatically generated

**Show Menu**

**A screenshot of a computer screen

Description automatically generated**

**Add a product**

A screenshot of a computer screen

Description automatically generated

**Edit product**

A screenshot of a computer

Description automatically generated

Enter information to update product and it will be updated accordingly

A screenshot of a computer

Description automatically generated

**Delete product**

A screenshot of a computer screen

Description automatically generated

Enter information to delete product and it will be deleted accordingly

A screenshot of a computer

Description automatically generated

**Exit from the Show Menu to go back to Main Menu**

A screenshot of a computer screen

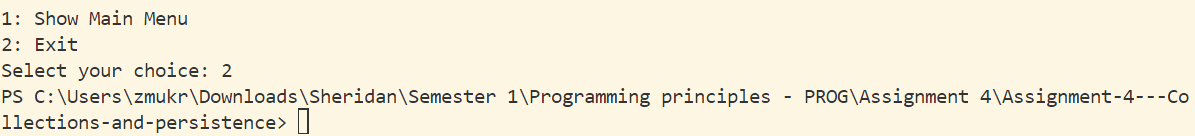
Description automatically generated

**Exit from the Main Menu to go back to the beginning of the program Menu**

A white background with black text

Description automatically generated

**Exit from the program**



**Filestorage Data – Comma delimited text file**

**ProductFile.txt**

A number and numbers on a white background

Description automatically generated

