

1. How much memory is used by a list of processes on your PC?

The code for the exercise is in the Task3 folder on GitHub.

2. Simulation of the scenarios.

- a. Scenario A:
 - i. `git commit -m "Test & People modification"`
 - ii. `git push origin feature_branch`
- b. Scenario B:
 - i. `git reset --soft HEAD^`
- c. Scenario C:
 - i. `git revert commit_sha`
 - ii. `git push -f origin feature-012B`
- d. Scenario D:
 - i. `git restore Wheel.cs`
- e. Scenario E:
 - i. `git reset --soft HEAD~3`
 - ii. `git add --all`
 - iii. `git commit`
 - iv. `git push --force`

3. Compare generics in .NET with Java generics.

- a. .Net:
 - i. faster
 - ii. no casting
 - iii. preventing from putting different types of objects
 - iv. information about type in .dll file
 - v. not compatible with old code
 - vi. generated at runtime
 - vii. supports primitive types
- b. Java:
 - i. slower
 - ii. casting
 - iii. preventing from putting different types of objects
 - iv. no information about type in .class file
 - v. more compatible with old code
 - vi. generated at runtime
 - vii. do not support primitive types

4. Do you know about any other query language similar to LINQ?

Scala, SQL, Python Generator Expressions