**Jakob Roberts - V00484900 - SENG 371 - Lab 4**

Git

* **QUESTION: Why did we say mvn compile test? Does it make sense?**
  + After cloning the repo, we want to compile the code, then we want to make sure it worked, so we run the test.
* **Can you describe the difference between merging and rebasing?**
  + Merging is a non-destructive operation that retains existing branch histories. However each merge that happens with master (especially if it is active) will show up as an extraneous merge commit each time.
  + Rebasing will give a much cleaner project history as it changes the effective “location” in the commit history when the feature branch was made. However, this can be bad as any rebasing changes can’t be shown as when a merge commit happens. Workflow can be affected negatively and this should be done with caution.

\* 41ee6c2 (HEAD, origin/master, origin/HEAD, naturals, master, floats) added readme

\* 1eb66a0 first commit

//had errors when committing, did not associate github account. [github.com/vealor](https://github.com/Vealor)

**BASH HISTORY**

348 cd Lab4

349 git clone https://github.com/sdiemert/Git-Workflows.git

350 cd Git-Workflows/

351 mvn compile test

352 git log --graph --oneline --decorate --all

353 alias ggraph='git log --graph --oneline --decorate --color --all'

354 ggraph

355 mvn test

356 git status

357 ls

358 cd src

359 ls

360 find |grep Arith

361 cd test/java/com/sdiemert/git\_test/

362 vim ArithmeticTest.java

363 mvn test

364 mvn test -X

365 pushd ./../../../../

366 cd ..

367 ls

368 cd ..

369 mvn test

370 mvn compile test

371 popd

372 ls

373 vim ArithmeticTest.java

374 pushd ./../../../../../../

375 mvn test

376 popd

377 vim ArithmeticTest.java

378 pushd ./../../../../../../

379 mvn test

380 popd

381 ls

382 vim ArithmeticTest.java

383 pushd ./../../../../../../

384 mvn test

385 popd

386 vim ArithmeticTest.java

387 pushd ./../../../../../../

388 mvn test

389 mvn test -X

390 popd

391 vim ArithmeticTest.java

392 pushd ./../../../../../../

393 mvn test

394 popd

395 vim ArithmeticTest.java

396 pushd ./../../../../../../

397 git status

398 git diff src/test/java/com/sdiemert/git\_test/ArithmeticTest.java

399 git add .

400 git status

401 git commit -m "Add unit test for add() method"

402 ggraph

403 git checkout -b naturals

404 git branch

405 ls

406 pushd src/test/java/com/sdiemert/git\_test/

407 popd

408 find |grep Arithmetic

409 pushd src/main/java/com/sdiemert/git\_test/

410 vim Arithmetic.java

411 ls

412 popd

413 pushd src/test/java/com/sdiemert/git\_test/

414 vim ArithmeticTest.java

415 popd

416 mvn test

417 pushd src/main/java/com/sdiemert/git\_test/

418 ls

419 cp Arithmetic.java NaturalArithmetic.java

420 vim Arithmetic.java

421 vim NaturalArithmetic.java

422 popd

423 mvn test

424 pushd src/test/java/com/sdiemert/git\_test/

425 vim ArithmeticTest.java

426 mvn compile

427 popd

428 mvn compile test

429 pushd src/test/java/com/sdiemert/git\_test/

430 vim ArithmeticTest.java

431 popd

432 mvn test

433 mvn test -e

434 mvn compile

435 mvn test

436 mvn compile

437 mvn test

438 mvn compile test

439 git status

440 git add .

441 git status

442 git add .

443 git del src/main/java/com/sdiemert/git\_test/.NaturalArithmetic.java.swp

444 git delete src/main/java/com/sdiemert/git\_test/.NaturalArithmetic.java.swp

445 git rm src/main/java/com/sdiemert/git\_test/.NaturalArithmetic.java.swp

446 git status

447 git commit -m "Add test for addition less than zero"

448 git branch

449 git checkout master

450 git checkout -b floats

451 git status

452 git checkout -b floats

453 git branch

454 ls

455 pushd src/main/java/com/sdiemert/git\_test/

456 ls

457 cp NaturalArithmetic.java FloatsArithmetic.java

458 ls

459 vim NaturalArithmetic.java

460 popd

461 pushd src/test/java/com/sdiemert/git\_test/

462 ls

463 cp NaturalArithmeticTest.java FloatArithmeticTest.java

464 vim FloatArithmeticTest.java

465 popd

466 mvn test

467 pushd src/main/java/com/sdiemert/git\_test/

468 ls

469 mv FloatsArithmetic.java FloatArithmetic.java

470 popd

471 mvn test

472 pushd src/main/java/com/sdiemert/git\_test/

473 ls

474 vim FloatArithmetic.java

475 vim NaturalArithmetic.java

476 mv NaturalArithmetic.java oops

477 mv FloatArithmetic.java NaturalArithmetic.java

478 mv oops FloatArithmetic.java

479 popd

480 mvn test

481 pushd src/main/java/com/sdiemert/git\_test/

482 vim FloatArithmetic.java

483 ls

484 popd

485 pushd src/test/java/com/sdiemert/git\_test/

486 vim FloatArithmeticTest.java

487 popd

488 mvn test

489 pushd src/test/java/com/sdiemert/git\_test/

490 vim FloatArithmeticTest.java

491 popd

492 mvn test

493 pushd src/test/java/com/sdiemert/git\_test/

494 vim FloatArithmeticTest.java

495 popd

496 mvn test

497 pushd src/test/java/com/sdiemert/git\_test/

498 popd

499 pushd src/test/java/com/sdiemert/git\_test/

500 vim FloatArithmeticTest.java

501 popd

502 mvn test

503 git checkout master

504 git checkout floats

505 git status

506 git add .

507 git status

508 git checkout master

509 pushd src/main/java/com/sdiemert/git\_test/

510 vim Arithmetic.java

511 popd

512 git status

513 git add .

514 git commit -m "things"

515 git checkout naturals

516 git rebase master

517 git checkout master

518 git merge floats

519 ggraph

520 history