



InfoGalaxy Computer

THE GURUKUL OF PROGRAMMING LANGUAGES

Line Comparison Problem

Outcome

1. Ability to work with Java Programming Constructs
2. Ability to work with basic git flows.



GIT Flow Expectations

- Create Repo for Shell Scripts
- Add and Commit Files
- Follow Message Hygiene
- During Commit specify Add or Refactor in the message beginning
- Create Branch
- Push to Remote Master and Branch
- Merge and Resolve Conflicts
- Ability to look into History of Files
- Comfortable with Git Commands

Java Programming Expectations

- Use of Java Programming Constructs
- Use of proper names for the File Names, Variables and Constants
- Use of Proper Indentations
- Avoiding Printing to standard terminal instead use debug
- No Commented Codes
- Follow DRY Principle – Do not Repeat Yourself
- Comfortable with Debug Execution Threads

Rules

- Start with Welcome message in the Main Branch
- Every Use Case (UC) in the Corresponding UC Branch
- For e.g. UC-1 Branch Name – EmployeeAttendanceUC
- Follow Programming Hygiene and DRY principle
- Testing the Program before pushing to Remote
- On Completion of every UC, do the following
 - Merge Local Branch with Local Master
 - Push to Remote Branch
 - Merge Local Master with Local Branch
 - Push Local Master to Remote Master



START

Start with Displaying
Welcome to Line
Comparison Computation
Program on Master Branch



UC 1

As a fan of geometry, I want to model a line based on a point consisting of (x, y) co-ordinates using the Cartesian system, So that I can calculate its length.

- A Length as 2 Points (x1, y1) and (x2, y2)
- Length of a Line = $\text{sqrt}((x2 - x1)^2 + (y2 - y1)^2)$



UC 2

As a fan of geometry, I want to check equality of two lines based on the end points, So that I know when two lines are the equal.

- Using Java equals method to check equality of 2 Lengths is preferable.



UC 3

As a fan of geometry, I want to compare two lines based on the end points, So that I know one line is equal, greater or less than the other line.

- Using Java compareTo method to compare 2 Lengths is preferable.



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Thank
You