Week 01: Research

Prompts

What is git? Why is it useful? What is the git workflow?

What are the 8 primitive data types in Java? What makes them each unique? What values can they hold?

What is your favorite thing you learned this week?

Git is a distributed version control system. It is used for handling minor to major projects like revisiting earlier versions of files, comparing versions, undoing changes, and so on. Git is the foundation of many services like GitHub and GitLab, but we can use Git without using any other Git services. Git can be used privately and publicly. Git workflow is a series of activities that how to use Git to accomplish work in an efficient way. Examples of some Git workflows are Centralized, Feature branch, Gitflow, Forking, etc. My favorite thing I've learned this week is Git and GitHub related things.

There are 8 primitive data types in Java those are byte, short, int, long, boolean, char, float, and double. Byte, short, int, and long hold whole numbers from -128 to 127, -32,768 to 32,767, -2,147,483,648 to 2,147,483,647, and -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 respectively. Boolean only holds true or false, default value is false & can't be used on switch case statement. Float and double hold fractional numbers sufficient for storing 6-7 and 15 decimal digits respectively, default values are 0.0f and 0.0d & can't be used on switch statement. Byte, short, and int default value is 0 and you can use them on switch case statement. Long default value is 0L can't be used on switch case statement. Char holds a single character/letter or ASCII values, the default value is '\u0000', and can be used on switch statement. Since java is an OOP language, all primitive data types have a dedicated object class called wrapper class.

References

https://git-scm.com/book/en/v2

https://about.gitlab.com/topics/version-control/what-is-git-workflow/

Oracle Java documentation:

https://docs.oracle.com/javase/tutorial/java/nutsandbolts/datatypes.html

w3schools:

https://www.w3schools.com/java/java_data_types.asp#:~:text=Primitive%20data%20types%20%2D%20includes%20byte,these%20in%20a%20later%20chapter)