Intro to Java Week 1 Research Assignment

**Points possible:** 30

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| --- | --- | --- |
| Category | Criteria | % of Grade |
| Accuracy | Is the information accurate? | 25 |
| Organization | Is the essay clean and organized? Ideas are presented in a logical order. | 25 |
| Citations | Students reference and cite at least 5 sources. | 25 |
| Completeness | All requirements of the assignment are complete. | 25 |

**Instructions:** In however many words necessary, write a thorough essay response to each of the below prompts. Be sure to include at least 5 references for this assignment. Do not copy and paste text from the internet or any other source; use the information you find in your research, summarize, in your own words, the concepts. Plagiarism will result in a zero for the assignment as well as disciplinary actions. Push this document to your GitHub repository for this week. Add the URL for this week’s repository to this document where instructed and submit this document to your instructor when complete.

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

**Git is a version control system and primarily used for source code management. It is useful because it can have multiple people working on one project simultaneously. Git workflow is the proper and easiest way to use git productively.**

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

Boolean data type is used for variables that holds either true or false, byte can hold whole number between -128 and 127. Mostly used to save memory and when you are certain that the numbers, char is a single character (letter) and single value, short This is greater than byte in terms of size and less than integer. Its range is -32,768 to 32767, int used when short is not large enough to hold the number, it has a wider range: -2,147,483,648 to 2,147,483,647, long sed when int is not large enough to hold the value, it has wider range than int data type, ranging from -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807, float is sufficient for holding 6 to 7 decimal digits and double Sufficient for holding 15 decimal digits.

**What is your favorite thing you learned this week?**

I properly learned how to push my work to git using the CMD.

**References:**

**URL to GitHub Repository: https://github.com/Cbraze/Week1Homework**