Intro to Java Week 2 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 are the different loops Java provides us with?**

For, enhanced for loop, while loop, do-while loop

**What is the syntax of one of the loops in your above answer? How and when should you use this loop? Give an example.**

The *for* loop is a gate keeper, if it returns true the we run the statement but if it returns false then we exit the loop. We use this loop when we want the loop to stop at a certain amount of times ex; we want to have put a coup of flower in bowl 4 times.

**What is the syntax of another one of the loops in your above answer? How and when should you use this loop? Give an example.**

The *enhanced for loop* This loop makes is easier to iterate over all elements in an array or a collection. We use this when we give a list object.

**What is the syntax of another one of the loops in your above answer? How and when should you use this loop? Give an example.**

The *while-loop* This while loop will repeat as long as the statement is true. Use this when we want to list something to a point.

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

I enjoyed learning about loops and how you can make it do many different things for example: can make it go every other number or every other third number.

**References:**

[**https://www.learnjavaonline.org/en/Loops**](https://www.learnjavaonline.org/en/Loops)

[**https://teamtreehouse.com/community/why-use-while-loop-instead-of-for**](https://teamtreehouse.com/community/why-use-while-loop-instead-of-for)

[**https://www.baeldung.com/java-loops**](https://www.baeldung.com/java-loops)

**URL to GitHub Repository:**

**https://github.com/samsquanch27/WeekTwoHW/tree/master/src**